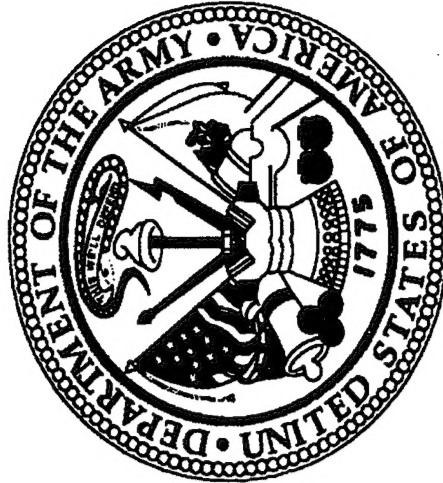


DEPARTMENT OF THE ARMY

Procurement Programs



DTIC QUALITY INSPECTED 2

Committee Staff Procurement Backup Book
FY 1999 Budget Estimates

**OTHER PROCUREMENT, ARMY
ACTIVITY 2, COMMUNICATIONS AND ELECTRONICS**

APPROPRIATION

February 1998

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

19980305 013

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100	LOGTECH	BZ8889	59502118.99P	415
101	TC AIMS II	BZ8900	59510118.99P	418
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Activity: 2. **COMMUNICATIONS AND ELECTRONICS**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	COMM - JOINT COMMUNICATIONS								
25	COMBAT IDENTIFICATION PROGRAM (BA0510)								4,890
26	JCSE EQUIPMENT (USREDCOM) (BB5777)								3,148
	SUB-ACTIVITY TOTAL								8,038
	COMM - SATELLITE COMMUNICATIONS								
27	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE) (BB8500)								94,616
28	SHF TERM (BA9350)								25,328
29	SAT TERM, EMUT (SPACE) (K77200)			749					2,485
30	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)	B	490,428	12,017				14	6,866
31	GROUND COMMAND POST (BC4001)								
32	SMART-T (SPACE) (BC4002)								57,743
33	SCAMP (SPACE) (BC4003)								4,708
34	GLOBAL BRDCST SVC - GBS (BC4120)								5,873
35	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)								1,474
	SUB-ACTIVITY TOTAL								199,093

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Activity: 2. **COMMUNICATIONS AND ELECTRONICS**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY (5)	COST (6)		QTY (7)	COST (8)	
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)
									(10)
	COMM - COMBAT SUPPORT COMM								
36	MSE MOD IN SERVICE (BB1611)				10,079				
	SUB-ACTIVITY TOTAL				10,079				
	COMM - C3 SYSTEM								
37	COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)				890				
38	SOUTHCOM HQ RELOCATION (BU4000)				20,462				
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)	A			20,340			16,807	20,562
	SUB-ACTIVITY TOTAL				41,692			16,807	20,562
	COMM - COMBAT COMMUNICATIONS								
40	ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)	B			77,504			67,163	24,048
41	MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)	A			5,969				
42	SINGARS FAMILY (BW0006)	A			311,320			285,199	13,212
43	JOINT TACTICAL AREA COMMS SYS (BA1010)	A			43,342			10,371	9,925
44	ACUS MOD PROGRAM (WIN-T/T) (BB1600)	A			13,174			102,299	97,080

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
45	TAC RADIO (BA1205)			1,120	35,529				
46	C-E CONTINGENCY/FIELDING EQUIP (BA5210)				569		1,964		2,166
47	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS (BA5300)						974		4,593
48	COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)	B					5,510		13,712
49	MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)								9,440
	SUB-ACTIVITY TOTAL				487,407		473,480		174,176
	COMM - INTELLIGENCE COMM								
50	JWICS CONNECTIVITY (BD3400)	A			662				
51	CI AUTOMATION ARCHITECTURE (BK5284)	A			2,437		2,230		2,319
52	CI CONUS BASED LAN (BK5287)	A			727				
	SUB-ACTIVITY TOTAL				3,826		2,230		2,319
	COMM - INFORMATION SECURITY								
53	TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)						4,576		10,315

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
54	INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)	A			19,789		13,403		29,714
	SUB-ACTIVITY TOTAL				19,789		17,979		40,029
	COMM - LONG HAUL COMMUNICATIONS								
55	TERRESTRIAL TRANSMISSION (BU1900)				6,692		20,237		1,953
56	BASE SUPPORT COMMUNICATIONS (BU4160)				2,634		1,822		1,124
57	ARMY DISN ROUTER (BU0300)				2,074		2,903		3,614
58	ELECTROMAG COMP PROG (EMCP) (BD3100)				451		455		452
59	WW TECH CON IMP PROG (WWTCIP) (BU3610)				1,175		916		2,031
	SUB-ACTIVITY TOTAL				13,026		26,333		9,174
	COMM - BASE COMMUNICATIONS								
60	INFORMATION SYSTEMS (BB8650)				48,495		50,193		91,213
61	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				6,255		7,728		16,723
62	LOCAL AREA NETWORK (LAN) (BU4165)				17,694		17,061		9,978

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(9)	(10)	(10)
63	PENTAGON INFORMATION MGT AND TELECOM (BQ0100) SUB-ACTIVITY TOTAL				50,250 ----- 122,694			27,437 ----- 102,419	39,195 ----- 157,109
	ELECT EQUIP - NAT FOR INT PROG (NFIP)								
64	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				2,086			3,897	876
65	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				23,583			18,856	21,562
66	ITEMS LESS THAN \$2.0M (INTEL SPT) - TIARA (BL5278) SUB-ACTIVITY TOTAL				9,005 ----- 34,674			2,718 ----- 25,471	----- 22,438
	ELECT EQUIP - TACT INT REL ACT (TIARA)								
67	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)	B			13,824			22,770	24,117
68	JTT/CIBS-M (TIARA) (V29600)	B	95,357	71	20,801	35		11,190	5,340
69	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	B			41,436				25,388
70	JOINT STARS (ARMY) (TIARA) (BA1080)	B			84,719			91,079	87,229
71	NATO-AGS (BA1082)							611	

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
72	INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)				1,445		3,197		6,487
73	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)	B	1,769,166	3	6,386	4	7,246	12	21,230
74	DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050)				2,540				
75	TACTICAL EXPLOITATION OF NATIONAL CAPABILITE (BZ7315)				1,818		1,629		1,690
76	JOINT TACTICAL GROUND STATION MODS (BZ8420)						2,827		2,638
77	TROJAN (TIARA) (BA0326)	B			4,179		3,729		3,991
78	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)				14,433		1,627		4,891
79	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)								3,700
80	ITEMS LESS THAN \$2.0M (TIARA) (BK5278)				443		511		530
	SUB-ACTIVITY TOTAL				192,024		146,416		187,231
	ELECT EQUIP - ELECTRONIC WARFARE (EW)								
81	SHORTSTOP (VA8000)				5,000		5,824		

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
82	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES (BL5283)				1,629		2,257		1,725
	SUB-ACTIVITY TOTAL				6,629		8,081		1,725
	ELECT EQUIP - TACTICAL SURV. (TAC SURV)								
83	SENTINEL (FAAD GBS) (WK5053)		2,532,478	28	68,877	27	59,447	23	58,247
84	TARGET LOCATION OBSERVATION SYSTEM (TLOS) (K38400)	B	49,525		13,861	435	20,755	238	11,787
85	NIGHT VISION DEVICES (KA3500)	A		1,064	100,570		42,241		29,636
86	LWTW VIDEO RECON SYSTEM (LWVRS) (K30800)	A	30,581	94	2,589	90	4,336	110	3,364
87	NIGHT VISION, THERMAL WPN SIGHT (K22900)	B	23,725	1,650	45,137	1,413	41,079	1,522	36,110
88	ARTILLERY ACCURACY EQUIP (AD3200)				4,549		4,415		11,004
89	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	B			16,124		1,188		5,477
90	COMPUTER BALLISTICS; XM-30 (K99200)	A		232	6,775				
91	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)		978,000	5	3,125	2	1,338	5	4,890
	SUB-ACTIVITY TOTAL				261,607		174,799		160,515

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	ELECT EQUIP - TACTICAL C2 SYSTEMS								
92	TACTICAL OPERATIONS CENTERS (BZ9865)	B	172,976	291	36,845	190	32,270	212	26,703
93	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)								36,671
94	FIRE SUPPORT ADA CONVERSION (B78400)	A			2,077		3,209		
95	CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)		76,491	54	5,778	57	5,590	122	9,332
96	FAAD C2 (AD5050)	A	7,102,000	3	41,915	1	12,696	2	14,204
97	FORWARD ENTRY DEVICE (FED) (BZ9851)	B			9,983		2,312		25,040
98	STRIKER-COMMAND AND CONTROL SYSTEM (B78500)		401,666					15	6,025
99	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				2,004		1,919		1,174
100	LOGTECH (BZ8889)	B			7,477		12,966		3,238
101	TC AIMS II (BZ8900)						2,132		445
102	GUN LAYING AND POS SYS (GLPS) (A30000)	B	93,500				5,824	126	11,781
103	ISYSCON EQUIPMENT (BX0007)				2,674		10,333		34,175

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
104	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	A	135,760	81	13,011	138		96	13,033
105	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	A	29,545		42,407	1,615	35,064	1,633	48,248
106	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				39,776		32,649		26,827
	SUB-ACTIVITY TOTAL				203,947		155,964		255,896
	ELECT EQUIP - AUTOMATION								
107	ARMY TRAINING XXI MODERNIZATION (BE4169)						24,497		32,635
108	AUTOMATED DATA PROCESSING EQUIP (BD3000)				138,352		129,412		130,712
109	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				72,153		110,969		108,192
	SUB-ACTIVITY TOTAL				210,505		264,878		271,539
	ELECT EQUIP - AUDIO VISUAL SYSTEMS (A/V)								
110	AFRTS (BZ8480)				2,383		446		487
111	ITEMS LESS THAN \$2.0M (A/V) (BK5289)				2,096		2,547		4,597
	SUB-ACTIVITY TOTAL				4,479		2,993		5,084

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
	ELECT EQUIP - TEST MEAS&DIAG EQUIP (TMDE)								
112	CALIBRATION SETS EQUIPMENT (BZ5269)	A			10,984				
113	INTEGRATED FAMILY OF TEST EQUIP (IFTE) (KA4000)	B			21,651				
114	TEST EQUIPMENT MODERNIZATION (TEMOD) (BZ5270)	A			8,150				
	SUB-ACTIVITY TOTAL				40,785				
	ELECT EQUIP - SUPPORT								
115	INSTALLATION C4 UPGRADE (ICU) (BB1000)				595				
116	PRODUCTION BASE SUPPORT (C-E) (BF5400)				680		405		403
	SUB-ACTIVITY TOTAL				1,275		405		403
	ACTIVITY TOTAL				1,861,465		1,583,589		1,516,331

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	(TOA, Dollars in Millions)								Total Program	
	1996 & Prior	1997	1998	1999	2000	2001	2002	2003		Complete
DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)										
AN/GSC-52 Modernization		20.3	26.9	28.4	22.4	33.1	31.7	29.4		192.2
Terminal Modernization	39.4	13.2	6.6	3.4						62.6
Total	39.4	33.5	33.5	31.8	22.4	33.1	31.7	29.4		254.8
MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)										
Multi-Channel Initial System (MCIS)	14.4	5.4	2.0	1.5						23.3
Total	14.4	5.4	2.0	1.5						23.3
MSE MOD IN SERVICE (BB1611)										
ECB Area Common User System Modernization Plan	17.0	10.1								27.1
Total	17.0	10.1								27.1
ACUS MOD PROGRAM (WIN-T) (BB1600)										
EAC Area Common Use System Modernization Plan	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	2826.0
Total	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	2826.0
INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)										
SOFTWARE DOWNLOAD CAPABILITY		1.4								1.4
PROCESSOR UPGRADE			1.3	3.6						4.9
COMSEC CIRCUITRY REPLACEMENT			0.7	1.2						1.9
DAMATIZATION			1.2	1.7						2.9
Total		1.4	3.2	6.5						11.1
JOINT TACTICAL GROUND STATION MODS (BZ8420)										
Sensor Fusion			0.7							0.7
Beacons			2.1							2.1
Joint Tactical Information Distribution System (JTIDS)				2.6						2.6
Total			2.8	2.6						5.4
MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)										

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	(TOA, Dollars in Millions)									Total Program
	1996 & Prior	1997	1998	1999	2000	2001	2002	2003	To Complete	
SINGARS Interference Cancellation	16.5	14.4	1.7							32.6
TEAMMATE Tactical Proficiency Trainer (TPT)	6.5									6.5
Enhance TRACKWOLF Mods	19.9									19.9
AN/PRD-13 (V) 2 Procurement				4.9	8.1					13.0
GBCS Upgrades					6.2	12.4	12.8	21.2	0.6	53.2
Total	42.9	14.4	1.7	4.9	14.3	12.4	12.8	21.2	0.6	125.2
MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)										
AN/TPQ-36(V)8 Electronic Upgrade	63.5	15.4	1.2	1.2	3.3	1.0	36.2	40.6		162.4
AN/TPQ-37(V)7 ATG Mobility Improvement	4.1	0.3								4.4
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I	26.5	0.4					4.7	0.5		32.1
Fire Support Digitization				4.3	1.8					6.1
Total	94.1	16.1	1.2	5.5	5.1	1.0	40.9	41.1		205.0
Grand Total	219.2	94.1	146.7	149.9	150.4	161.4	235.9	192.1	2128.2	3477.9

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
COMBAT IDENTIFICATION PROGRAM (BA0510)												
Program Elements for Code B Items:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						10	328	865	990	427		2620
Gross Cost	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Flyaway U/C						0.470	0.043	0.026	0.022	0.017		
Wpn Sys Proc U/C						0.490	0.044	0.032	0.029	0.032		

NARRATIVE: The Battlefield Combat Identification System (BCIS) is an all weather, day/night, millimeter wave, Low Probability of Intercept/Low Probability of Detection (LP/ILPD), digitally encrypted question and answer system that provides positive identification of friendly platforms out to 5.5 km (clear weather). BCIS was developed to minimize fratricide while maximizing combat effectiveness given the rapid shoot/don't shoot decision at the point of engagement. BCIS also provides short range (out to 1 km, in clear weather), situational awareness messages at the platoon level. Any situational awareness received by BCIS will be sent to the Applique for integration with other position sources to form the full situational awareness database.

JUSTIFICATION: Performance results from the Army TF XXI AWE indicate that situational awareness (SA) in its current form is insufficient to prevent fratricide by itself, thus a Target Identification (TI) capability is required. FY99 funding is required to initiate production for fielding to selected units of the Army's 4th ID in order to comply with Chief of Staff, Army plan to field to a digitized division. FY99 funding includes the cost of initial hard tooling and production line set-up to support low rate and full scale production of the system. FY99 also provides for sufficient quantities to conduct Production Verification Test (PVT).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)				Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
	1. Initial Production Facilities									3702			
	2. BCIS									709	10		71
	3. Project Management Admin									346			
	4. System Test and Evaluation												
	5. Support												
	Technical Data									55			
	Support Equipment												
	Operational/Site Activation												
	ECOs												
	6. Fielding									78			
	Total System Cost									4890			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
BCIS	TRW, Redondo Beach, CA	SS/FPI	CECOM, Ft. Monmouth, NJ	Apr-99	Apr 00	10	50	Yes	NA	Jan-99
BCIS	TRW, Redondo Beach, CA	SS/FPI	CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	328	26			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-00	Aug-01	865	22			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-01	Aug-02	990	21			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-02	Aug-03	427	16			

REMARKS: The LRIP and first Digitized Division requirements will be awarded on an other than full and open competition basis. The system is deemed to be available only from the original source because an award to any other source would result in both a substantial duplication of cost to the government and unacceptable delays in fulfilling the Army's requirements for fielding to a Digitized Division.

[illegible]

Exhibit P-21, Production Schedule

[illegible]

Exhibit P-21, Production Schedule

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										Date: February 1998		
P-1 Item Nomenclature: JCSE EQUIPMENT (USREDCOM) (BB5777)												
Program Elements for Code B Items:												
Other Related Program Elements:												
		Code: A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Initial Spares												
Total Proc Cost	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile, multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellite radios, MILSTAR radios, Asynchronous Transfer Mode (ATM) switching nodes, and upgrades to existing systems.

JUSTIFICATION:
 Equipment requirements are approved annually by the JCS and assigned to the respective Services for procurement through the Executive Acquisition Agent (ARMY).

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1818.8	103.5	74.3	92.7	84.6	94.6	71.5	75.8	65.1	63.5		2544.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1818.8	103.5	74.3	92.7	84.6	94.6	71.5	75.8	65.1	63.5		2544.4
Initial Spares												
Total Proc Cost	1818.8	103.5	74.3	92.7	84.6	94.6	71.5	75.8	65.1	63.5		2544.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations.

JUSTIFICATION: Funds are required to support various requirements as directed by the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C2, NATO, UK, and Diplomatic Telecommunications Service (DTS).

FY99 JRSC funds will provide for the continued acquisition of the Universal Modern System (UMS). FY99 Mod of In-Service equipment funds provide for continued installation and fielding of the Heavy/Medium Terminals' (HT/MT) MWO kits and AN/GSC-52 installation kits. FY99 DSCS Operations Control System (DOCS) funds complete the procurement of the Replacement Satellite Configuration Control Element (RSCCE) program and continues procurement of Operational Databases. FY99 Digital Equipment funds will provide for continued fabrication of racks and components and their integration into DSCS. FY99 Interconnect Facility (ICF) funds will continue to accomplish DISA and JCS directed satellite ground terminal relocations supporting realignment of U.S. forces worldwide. In addition, FY99 funds annualized engineering, matrix, and fielding support for current and prior year DSCS procurements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)		Weapon System Type:		Date: February 1998			
ID	CD	FY 96		FY 97		FY 98		FY 99			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
DSCS - DIGITAL EQUIPMENT (SPACE)		19876			17101			13611		11286	
DSCS - INTERCONNECT FACILITY (SPACE)		2898			3150			3138		10585	
DSCS - JAM RESISTANT SECURE COMM (JRSC)		4538			28749			17499		14028	
DSCS - OPERATIONS CONTROL SYS (DOCS)		7614			10140			16896		26966	
DSCS - MOD OF IN-SVC EQUIP (SPACE)		39385			33549			33487		31751	
TOTAL		74311			92689			84631		94616	

Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No: _____ Date: _____ February 1998

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

Proc Qly	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Gross Cost	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6		446.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6		446.2
Initial Spares												
Total Proc Cost	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6		446.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS satellites that are in geostationary earth orbits for worldwide coverage. This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization. This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a vanized or fixed configuration. Each system is tailored to the individual user earth terminal requirements.

JUSTIFICATION: The DSCS Program must be sustained through the year 2010 to support projected future operational needs. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY99 funds will provide for fabrication of racks and components and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. These JRSC racks and FDMA racks provide the maximum efficiency in long-range communications by integrating all digital communications network control, and anti-jam secure communications in one system. Another DCSS priority is the procurement of the Integrated Baseband Work Station, which reduces O&M costs by providing centralized equipment configuration, control, and monitoring. The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Gateways, the primary means of interoperable communications providing tactical warfighters

Exhibit P-40C Budget Item Justification Sheet			Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)		
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatibility with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY99 also initiates the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access.</p>			

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A	DCSS Equipment Racks and Fabrication Hardware Integration	5517 220	6	VAR	4265 170	4	VAR	3060 120	4
	Engineering Support Contractor Engineering Government Engineering	1785 1825			1650 1750			1600 1400	
	Documentation	1000			796			500	
	OM-73 Modem Procurement Hardware	4029	237	17					
	Multiplex Systems	5500	8	VAR	1127	2	VAR		
	Integrated Baseband Workstation					67	6	300	50
	Multiplexer Integration & DCSS Automation System (MIDAS) Non-Recurring Contractor Engrg/Data				1690 5653	3	VAR	4400 3000	6
	8-PSK Modem					32	28	1876	67
	TAXES							633	
	TOTAL	19876			17101			11286	
NOTE: FY97 Dollars are actual, database will be corrected during the next open window.									

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
DCSS Equipment Racks and Fabrication		TYAD		WR	CECOM	Nov-95	Jan-96	6	VAR	Yes		
FY96		TYAD		WR	CECOM	Nov-96	Jan-97	4	VAR	Yes		
FY97		TYAD		WR	CECOM	Nov-97	Feb-98	4	VAR	Yes		
FY98		TYAD		WR	CECOM	Nov-98	Jan-99	4	VAR	Yes		
FY99												
OM-73 Modem Procurement Hardware		GROUP TECH CORP		C/FFP Opt	CECOM	Mar-96	Oct-96	237	17	Yes		
FY96												
Multiplex Systems		NET		MIPR	DISA	Feb-96	May-96	8	VAR	Yes		
FY96		NET		MIPR	DISA	Feb-97	May-97	2	VAR	Yes		
FY97												
Integrated Baseband Workstation		TBS		C/FFP	CECOM	Feb-98	May-98	67	6	Yes		
FY98		TBS		C/FFP Opt	CECOM	Feb-99	May-99	50	6	Yes		
FY99												
MIDAS		RAYTHEON		C/FFP	CECOM	May-97	May-98	3	VAR	Yes		
FY97		RAYTHEON		C/FFP Opt	CECOM	Feb-98	Feb-99	8	VAR	Yes		
FY98		RAYTHEON		C/FFP Opt	CECOM	Feb-99	Feb-00	6	VAR	Yes		
FY99												
8-PSK Modem		TBS		C/FFP	CECOM	Mar-98	Jun-98	32	28	Yes		
FY98		TBS		C/FFP Opt	CECOM	Mar-99	Jun-99	67	28	Yes		
FY99												
REMARKS:					DISA = DEFENSE INFORMATION SYSTEMS AGENCY NET = NETWORK EQUIPMENT TECHNOLOGY GROUP TECH CORP = GROUP TECHNOLOGIES CORPORATION PSK = PHASE SHIFT KEYING							
WR = WORK REQUEST TYAD = TOBYHANNA ARMY DEPOT MIPR = MILITARY INTERDEPARTMENTAL PURCHASE REQUEST MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM												

[illegible]

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:										
Program Elements for Code B Items:		Code:	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Initial Spares												
Total Proc Cost	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program executes the Army's executive agency responsibility to install and relocate strategic DSCS satellite communications earth terminals procured by Product Manager, Defense Satellite Communications System (DSCS) Terminals and digital communications equipment procured and packaged by Space & Terrestrial Communications Directorate. For the Army, this program also designs, procures and installs the interconnection facility to interface this equipment with existing technical control and special user facilities.

JUSTIFICATION: FY99 funds buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. Reduced overseas manning and the refocus of US interests to areas such as Southwest Asia requires a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems to be replaced by newer equipment made available by US troop withdrawals from Europe and other areas. In addition, the FY99 program has been increased IAW AMC policy decision to fund all PM costs from the Procurement program.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
NON-RECURRING ENGINEERING/TEST														
A		SITE PREP										4005		
A		INTERCONNECT FACILITY MBOM	203	2	VAR	135	1	135	250	VAR	VAR	250	VAR	VAR
A		INSTALLATION HDWR	727	VAR	VAR	714	VAR	VAR	900	VAR	VAR	900	VAR	VAR
A		FIELDING	424	VAR	VAR	548	VAR	VAR	600	VAR	VAR	600	VAR	VAR
A		DIRECT COMM LINK	50	VAR	VAR	50	VAR	VAR	65	VAR	VAR	75	VAR	VAR
A		INSTALLATION/CHECKOUT SPARES	750	1	750	296	1	296	173	1	173	215	1	215
A		INSTALLATION	344	VAR	VAR	387	VAR	VAR	400	VAR	VAR	400	VAR	VAR
A		DSCS EARTH TERM RESOURCE MGT SYS	400	VAR	VAR	450	VAR	VAR	250	VAR	VAR	250	VAR	VAR
A		DSCSI DIGITAL TRAINING				570	1	570	500	1	500	590	1	590
A		PROGRAM SUPPORT COSTS										700		
TOTAL			2898			3150			3138			10585		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SITE PREP FY96 FY97 FY98 FY99	IN-HOUSE	COE 1/ COE	Nov-95	Mar-96	2	VAR *	Yes	No	
	IN-HOUSE	COE	May-97	Jun-97	1	135	Yes	No	
	IN-HOUSE	COE	Mar-98	Mar-98	VAR *	VAR *	Yes	No	
	IN-HOUSE	COE	Mar-99	Mar-99	VAR *	VAR *	No	No	
INTERCONNECT FACILITY MBOM FY96 FY97 FY98 FY99	VAR **	DDRW 2/ DDRW	VAR	Mar-96	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Mar-97	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Mar-98	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Mar-99	VAR *	VAR *	No	No	
INSTALLATION HDWR FY96 FY97 FY98 FY99	VAR **	DDRW	VAR	Jan-96	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Jan-97	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Jan-98	VAR *	VAR *	Yes	No	
	VAR **	DDRW	VAR	Jan-99	VAR *	VAR *	No	No	
REMARKS: 1/ CORPS OF ENGINEERS, WINCHESTER, VA 2/ DEFENSE DISTRIBUTION REGION WEST, STOCKTON, CA * = SITE SPECIFIC ** = VARIOUS CONTRACTS AWARDED BY DDRW									

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FIELDING												
FY96		IN-HOUSE		MIPR	ISEC	Nov-96	Dec-96	VAR *	VAR *	Yes	No	
FY97		IN-HOUSE		MIPR	ISEC	Nov-97	Dec-97	VAR *	VAR *	Yes	No	
FY98		IN-HOUSE		MIPR	ISEC	Nov-98	Dec-98	VAR *	VAR *	Yes	No	
FY99		IN-HOUSE		MIPR	ISEC	Nov-99	Dec-99	VAR *	VAR *	No		
DIRECT COMM LINK												
FY96		ALLIED SIGNAL 3/		C/FP	1110TH SIG BN	Jan-96	Jan-96	1	750	Yes	No	
FY97		ALLIED SIGNAL		C/FP	1110TH SIG BN	Dec-96	Jan-97	1	296	Yes	No	
FY98		ALLIED SIGNAL		C/FP	1110TH SIG BN	Dec-97	Jan-98	1	173	Yes	No	
FY99		ALLIED SIGNAL		C/FP	1110TH SIG BN	Dec-98	Jan-99	1	215	No		
INSTALLATION/CHECKOUT SPARES												
FY96		IN-HOUSE		REQ	CECOM	VAR	Dec-95	VAR *	VAR *	Yes	No	
FY97		TYAD 4/		DEPOT	CECOM	VAR	May-97	VAR *	VAR *	Yes	No	
FY98		IN-HOUSE		REQ	CECOM	VAR	Nov-97	VAR *	VAR *	Yes	No	
FY99		IN-HOUSE		REQ	CECOM	VAR	Nov-98	VAR *	VAR *	No		
DSCS EARTH TERM RESOURCE MGT SYS												
FY96		SAIC 5/		C/FP	ISC	Jan-96	Feb-96	VAR *	VAR *	Yes	No	
FY97		SAIC		C/FP	ASC	Jan-97	Feb-97	VAR *	VAR *	Yes	No	
FY98		SAIC		C/FP	ASC	Jan-98	Feb-98	VAR *	VAR *	Yes	No	
FY99		SAIC		C/FP	ASC	Jan-99	Feb-99	VAR *	VAR *	No		
REMARKS:											3/ ALLIED SIGNAL, GREENBELT, MD 4/ TOBYHANNA ARMY DEPOT, TOBYHANNA, PA 5/ SCIENCE APPLICATIONS INTERNATIONAL CORP., SIERRA VISTA, AZ * = SITE SPECIFIC	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
DSCSI DIGITAL TRAINING FY97 FY98 FY99	CSC 6/ CSC CSC	C/FP C/FP C/FP	CECOM CECOM CECOM	Feb-97 Jan-98 Feb-99	Mar-97 Mar-98 Mar-99	1 1 1	570 500 590	Yes Yes No	No No No	
REMARKS: 6/ COMPUTER SCIENCES CORP., FALLS CHURCH, VA										

Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:
 OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

Date: February 1998

P-1 Item Nomenclature:
 DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)

Other Related Program Elements:

	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5
Initial Spares												
Total Proc Cost	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. JRSC requirements are characterized by a combination of new and existing satellite equipments. They include: AN/GSC-52, JRSC Satellite Terminals AN/GSC-49, AN/USC-28 Spread Spectrum Multiple Access Equipment including Mitigation Modifications, the Universal Modem System (UMS), Replacement Satellite Configuration Control Element (RSCCE) and the Service Life Extension Program (SLEP). In FY99, the UMS is the only funded program. The other identified anti-jam systems have already been acquired. The UMS will enable strategic and tactical forces under the command of the U.S., U.K., France and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponders of the DSCS III, NATO or SKYNET 4 satellite systems.

JUSTIFICATION: The FY99 funds are for the acquisition of the Universal Modem System (UMS). Fifty six (56) UMS's of various configurations will be acquired in FY99.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/USC-28 FY96	MAGNAVOX TORRANCE, CA	SS/FP	CECOM	Nov-95	Nov-96	89	33	Yes		
UNIVERSAL MODEM SYSTEM FY97	ROCKWELL-COLLINS RICHARDSON, TX	C/FP	CECOM	Feb-97	Feb-00	18	333	Yes		
UNIVERSAL MODEM SYSTEM FY98	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Mar-98	Jun-00	53	186	Yes		
UNIVERSAL MODEM SYSTEM FY99	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Mar-99	Jan-01	56	147	Yes		
RSCCE/SLEP FY98	STANFORD TELECOM COLORADO SPRINGS, CO	C/FP	CECOM	Dec-97	Jun-00	5	523	Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509))	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Initial Spares													
Total Proc Cost	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs in support of the warfighter. DOCS is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically control operations over these links. The Objective DSCS Operations Center (ODOC) will modernize the existing DOCS subsystems to provide improved satellite communications to Ground Mobile Forces and Strategic users. It will replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of personnel required, and increase overall system availability. DOCS supports control of the satellite payload, satellite communications network planning, satellite communications link performance monitoring, and control of ground satellite terminals. DOCS assures reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

JUSTIFICATION: Funding supports the ODOC Operational Requirements Document (ORD) approved by DA 31 Jan 96. FY99 funds procure the remaining Replacement Satellite Configuration Control Element (RSCCE) quantities and the Objective DSCS Operations Center (ODOC) workstations. The RSCCE is required to provide real-time monitoring and control of the DSCS III satellite platform and communications payload. The acquisition of the ODOC workstations is required for ODOC to comply with the Army Technical Architecture and the Common Operating Environment. In addition, FY99 funds procure Operational Database, DOCS Training System (DTS), and the Smart Multi-Channel Circuit Terminal (SMCT) software. Operational Databases are required for command and control of DSCS III satellites. DTS software is used to train Fort Gordon Signal School personnel on the DOCS subsystems. The SMCT software is required to provide automated message processing with archival storage capabilities for the terrestrial orderwire circuits with the earth terminals. FY99 will also fund the first Replacement BATSON (RBATSON) and Radio Frequency Interface System (RFIS) production units. RBATSON is required to provide security, authentication, and anti-jam waveform protection to satellite

Exhibit P-40C Budget Item Justification Sheet			Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509)		
Program Elements for Code B Items	Code	Other Related Program Elements	
<p> commands received by the RSCCE for transmission to DSCS III satellites. RFIS provides the interface connection between the DSCS Control equipment and the collocated Earth Terminal. The upgrade is required to improve operational performance, as well as adding additional ports to accommodate the Universal Modem and ODOC architecture. Finally, FY99 funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements. </p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509))			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware														
DIMS			1521	5	304		13	77		6	497	3036	6	506
DOSS RACKS									2979			1677	9	186
RSCCE												5772	15	385
RBATSON														
ODOC WORKSTATION									1300	126	10			
DFCS UPGRADE												2907	1	2907
RFIS														
Engineering Changes (DIMS/RSCCE)			1076						171			536		
Software			656						6123			3045		
Systems Integration			697						1750			3200		
Engineering Support			843						821			1095		
Contractor Engineering			1763						1808			2140		
Government Engineering														
Documentation			34						602			2581		
Fielding			734						1042			670		
Project Management Administration			290						300			307		
TOTAL			7614			10140			16896			26966		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature:										
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
DSCS Integrated Management System (DIMS) FY96		Stanford Telecom, Inc Colorado Springs, CO		C/FP(Opt)		CECOM		Dec-95	Jul-96	5	304	Yes		
DOSS Racks FY97		Stanford Telecom, Inc Colorado Springs, CO		C/FP		ARMY SPACE COMMAND		Jun-97	Feb-98	13	77	Yes		
Replacement Satellite Configuration Control Element (RSCCE) FY98		Stanford Telecom, Inc Colorado Springs, CO		C/FP(Opt)		CECOM		Mar-98	Jan-00	6	497	Yes		
FY99				C/FP(Opt)		CECOM		Mar-99	Jul-00	6	506	Yes		
Replacement BATSON (RBATSON) FY99		Stanford Telecom, Inc Colorado Springs, CO		C/FP(Opt)		CECOM		Mar-99	Apr-00	9	186	Yes		TBD
ODOC Workstations FY99		TBS		C/FP		CECOM		Mar-99	Mar-00	15	385	Yes		TBD
Radio Frequency Interface System (RFIS) FY99		TBS		C/FP		CECOM		Feb-99	Aug-00	1	2907	No		
DFCS Upgrade FY98		Stanford Telecom, Inc		C/FP		ARMY SPACE COMMAND		Mar-98	Oct-98	126	10	Yes		
REMARKS:														

P-1 Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP BB8509)

February 1998

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	184.7	45.7	39.4	33.5	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	184.7	45.7	39.4	33.5	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Initial Spares													
Total Proc Cost	184.7	45.7	39.4	33.5	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: These modifications will modernize the aging heavy terminals (HT), medium terminals (MT) so that all Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. In addition, a modernization effort is planned for the AN/GSC-52 System which will eliminate system obsolescence, modernize existing equipment and provide component commonality with other existing strategic terminals.

JUSTIFICATION: FY99 funds are required to continue the installation/fielding of the HT/MT modification work order (MWO) kits. FY99 funds are also required to procure the first option for the AN/GSC-52 installation kits and complete the acquisition of AN/GSC-52 vans and AN/GSC-52 components that are common to the other DSCS satellite terminals.

Exhibit P-40M Budget Item Justification Sheet

Date _____

February 1998

Appropriation / Budget Activity/Serial No.

P-1 Item Nomenclature

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

DSCS - MOD OF IN-SVC EQUIP (SPACE) (8B8416)

Program Elements for Code B Items

Code

Other Related Program Elements

Description

Fiscal Years

OSIP NO.	Classification
----------	----------------

[illegible]

AN/GSC-52 Modernization

1-89-07-0030

1-89-07-0030	0.0	20.3	26.9	28.4	22.4	33.1	31.7	29.4	192.2
--------------	-----	------	------	------	------	------	------	------	-------

Terminal Modernization

1-89-07-0005	39.4	6.6	3.4	0.0	0.0	62.6
	39.4	6.6	3.4	0.0	0.0	62.6

Totals

Totals	39.4	33.5	31.8	22.4	33.1	31.7	29.4	254.8
--------	------	------	------	------	------	------	------	-------

INDIVIDUAL MODIFICATION																	
MODIFICATION TITLE: AN/GSC-52 Modernization 1-89-07-0030										Date							
MODELS OF SYSTEMS AFFECTED: AN/GSC-52 Modernization										February 1998							
DESCRIPTION / JUSTIFICATION: The modernization effort of the AN/GSC-52 System will eliminate obsolescence, modernize the existing equipment and provide commonality with other existing terminals. The acquisition strategy consists of a two contract approach. In FY97, components which are common to the AN/GSC-39 and AN/FSC-78/79 terminals were purchased from an existing contractual vehicle as a cost effective means to insure component commonality for these DSCS Terminals. Another contract will be awarded in FY98 for the production of installation kits and installation of the AN/GSC-52 hardware. The guidance was directed by DISA DSCS Program Plan FY93-98, dated January 1994. FY98 funds are required to begin procuring the installation kits and software for the AN/GSC-52 Modernization effort. FY99 funds continue the acquisition of AN/GSC-52 installation kits and complete the procurement of common components.																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: FY99 funds are required to continue the acquisition of AN/GSC-52 installation kits and complete the acquisition of common components.																	
Installation Schedule:																	
Inputs Outputs	Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs Outputs		FY 2002			FY 2003			FY 2004			FY 2005			Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
		2	3	3	3	3	3	3	3	3	3	3	3	3	1		39
		1	2	3	3	3	3	3	3	3	3	3	1				39
METHOD OF IMPLEMENTATION: MWO Contract Dates: FY 1997 Delivery Date: FY 1997												ADMINISTRATIVE LEADTIME: FY 1998 Apr 98 FY 1998 Nov 00 FY 1999 FY 1999 Mar 01 FY 2000 FY 2000 Mar 02					

INDIVIDUAL MODIFICATION														Date		February 1998				
AN/GSC-52 Modernization 1-89-07-0030																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
AN/GSC-52 Mod Hardware																				
Other Hardware	39	18.9																	39	18.9
Vans			2	0.6		1.6						2.1				0.9				8.1
Restoral Terminals			1	0.2	10	0.8	6	0.5			10	0.9							30	2.6
Installation Kits (recurring)				1.3	3	4.0								2					4	5.3
Installation Kits (nonrecurring)			3	2.3	8	6.0	8	6.0			10	7.5		6		4	3.0		39	29.3
Antenna Modernization				5.9																5.9
Engineering Change Orders				0.4		1.1						1.4				0.6				5.5
Data/Documentation				1.2		4.5						5.0				4.0				24.7
Testing				3.2		0.4						0.2				0.2				4.4
Training				1.6								0.1				0.4				3.0
Total Package Fielding												0.3				0.3				1.2
Interim Contractor Support												0.2				0.5				1.5
Project Mgmt Admin												0.3				3.9				5.5
Government Support				0.2		0.3						0.3				0.3				1.9
Software Development/PDSS				1.3		1.3						0.9				0.5				7.0
Other DSCS Term Hardware				8.1		8.4						1.3				1.3				13.3
Taxes				0.6								11.4				5.6				41.5
Total Procurement Costs				26.9		28.4						31.9				22.2				0.6
FY98																			112	180.2
FY99												2							3	1.8
FY00												1.2							8	4.8
FY01																			8	4.8
FY02																			1	0.6
FY03																				
Total Installment												2							20	12.0
Total Procurement Cost												33.1				29.4			132	192.2

INDIVIDUAL MODIFICATION																																																																																																																																																																									
MODIFICATION TITLE: Terminal Modernization 1-89-07-0005										Date																																																																																																																																																															
February 1998																																																																																																																																																																									
MODELS OF SYSTEMS AFFECTED: AN/FSC-78/79, AN/GSC-39, and AN/TSC-86																																																																																																																																																																									
DESCRIPTION / JUSTIFICATION: <p>The AN/FSC-78/79 Heavy Terminal (HT), AN/GSC-39 Medium Term (MT) began operation in the mid-70's & have surpassed their 15 year design life. The original systems were fielded with a required Mean Time Between Failures (MTBF) of 1,000 hours. Due to aging, the MTBF degraded significantly. The Terminal Mod program will eliminate system obsolescence and enable the terminals to achieve the required 1,000 hours MTBF. The contract was awarded in Mar 92 for this modernization effort, which will provide for upgrading of aging electronics in HT/MT satellite earth terminals so all Defense Satellite Communications Systems (DSCS) Super High Frequency (SHF) strategic earth terminals will use common electronics & logistics support. The result will extend the life of the terminals for another 15 years, enhance operational readiness, reduce training & logistics support, conserve energy & improve maintainability. This Tri-Service DOD Program was approved in the FY91-95 DSCS Program Plan, Jun 89. FY99 funds are required to complete installation/fielding of the Terminal Mod Program.</p>																																																																																																																																																																									
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <p>No development required.</p>																																																																																																																																																																									
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td>27</td><td>3</td><td>3</td><td>3</td> <td>4</td><td>4</td><td>3</td><td>3</td> <td>2</td><td>2</td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td>24</td><td>3</td><td>3</td><td>3</td> <td>4</td><td>4</td><td>4</td><td>3</td> <td>3</td><td>2</td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>Complete</th><th></th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td>52</td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td>52</td> </tr> </tbody> </table>												Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs	27	3	3	3	4	4	3	3	2	2											Outputs	24	3	3	3	4	4	4	3	3	2											Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete		Inputs																		52	Outputs																		52
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METHOD OF IMPLEMENTATION: MWO Contract Dates: FY 1997 Delivery Date: FY 1997 ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 15 Months FY 1999 FY 1999																																																																																																																																																																									

INDIVIDUAL MODIFICATION														Date	February 1998					
Terminal Modernization 1-89-07-0005																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Reprogram to Higher Army Priorities		3.4																		3.4
PROCUREMENT																				
Equipment		126.1		5.1																131.2
Equipment (nonrecurring)		16.7																		16.7
Installation Kits (recurring)	52	8.7																	52	8.7
Installation Kits (nonrecurring)		5.4																		5.4
Engineering Change Orders		7.4																		7.4
Data		12.2																		12.2
Training Equipment		2.6																		2.6
Support Equipment		0.3																		0.3
GFE		6.3																		6.3
Project Mgt Admin		3.0		0.5		0.5				0.3										4.3
Fielding		2.8		0.3		0.3				0.2										3.6
Interim Contractor Support		5.9		0.6		0.6				0.4										7.5
Gov't/Contr Support		14.6		1.1		1.0				0.5										17.2
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	24	14.8	12	5.6	14	4.2	2	2.0											52	26.6
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Instalment	24	14.8	12	5.6	14	4.2	2	2.0											52	26.6
Total Procurement Cost		230.2		13.2		6.6		3.4												253.4

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										SHF TERM (BA9350)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:		Other Related Program Elements:											
Code:		A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Initial Spares													
Total Proc Cost			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: Super High Frequency (SHF) Tri-Band Advanced Range Extension Terminal (STAR-T) is a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) mounted, multi-channel Tactical Satellite Terminal (TACSAT). It has a tri-band capability in the Super High Frequency (SHF) range and will operate over commercial and military SHF satellites. Selected terminals will also have an integrated switch that will interface with both commercial and joint military switching systems. The STAR-T is being procured by the USMC and the Joint Communications Support Element (JCSE) and will replace the current TSC-85 and TSC-93 SHF multi-channel TACSAT terminals.

JUSTIFICATION: FY-99 funds will procure eleven STAR-T terminals. This program will replace the aging fleet of AN/TSC-85/93 terminals by providing tri-band communications capability for split based operations. The AN/TSC-85/93 terminals cannot meet the transportability and deployability requirements of a force projection Army, nor can they exploit commercial space as mandated by OSD. Prolonging the life of these terminals would result in rapidly escalating maintenance costs which negatively impact upon the O&M budget. The STAR-T will selectively replace all Ground Mobile Forces (GMF) terminals at Echelons Above Corps (EAC).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SHF TERM (BA9350)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE*	CD	A				5606	5	1121	4178	7	597	6656	11	605
GFE						436			3204			7457		
ECP						4200			3531			1990		
CONTRACTOR ENGINEERING						488			805			1431		
GOVERNMENT ENGINEERING						681			732			1054		
GOVERNMENT PROGRAM MGMT						744			472			784		
DATA						332			98			420		
TEST									650			777		
INTEGRATION						389			135			3530		
FIELDING						104			102			966		
SUPPORT EQUIPMENT						280						263		
TOTAL						13260			13907			25328		
*Unit costs vary due to different configurations and complements of ancillary equipment														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature:						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE FY1997		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-97	Mar-98	5	1121	YES		
FY1998		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Mar-98	Nov-98	7	597	YES		
FY1999		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Mar-99	Nov-99	11	605	YES		
REMARKS: The STAR-T is a fixed price option to the Special Operations Forces Tactical Assured Connectivity System (SOFTACS) Tri-Band Terminal contract which was awarded in August 1996. Unit costs vary due to different configurations and complements of ancillary equipment.											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										SAT TERM, EMUT (SPACE) (K77200)		
Program Elements for Code B Items:												
Code:										Other Related Program Elements:		
A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	755		666	749	105							2275
Gross Cost	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Initial Spares												
Total Proc Cost	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Enhanced Manpack UHF Terminal (SPITFIRE) program replaces the existing inventory of single channel SATCOM radios to add Communications Security (COMSEC), and Demand Assigned Multiple Access (DAMA) capability to support all DoD, Special Operations Forces (SOF) and other Agencies. Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. No other DoD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.

JUSTIFICATION: The FY99 funds will field SPITFIRE prior year procurements.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SAT TERM, EMUT (SPACE) (K77200)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware	A		13279	666	20	15225	754*	VAR	2854	105	27			
Engineering Support														
Contractor Engineering			812			678			500			456		
Government Engineering			1277			963			980			748		
Government Program Mgmt						210			367			270		
ECP's			270			330								
Test			998			113								
Vehicular Power Adapters and Amplifiers						349								
Fielding			316			652			1573			1011		
TOTAL			16952			18520			6274			2485		

* Quantity has been adjusted to reflect
current program planning

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))										
Program Elements for Code B Items:		Other Related Program Elements:										
		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	25546		2112	12017	17	14	14	7019	7120	12519		66378
Gross Cost	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Initial Spares												
Total Proc Cost	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Navstar Global Positioning System (GPS) is a passive space based radio positioning and navigation system that provides position, velocity and time information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) is a family of receivers that meet DoD requirements for Selective Availability and Anti-Spoofing, provides the users with Precise Positioning Service (PPS), and is designed to accommodate the differing dynamic user environments to include handheld as well as host platforms. The Army acquisition strategy is to procure a mix of Non-Developmental Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. Current Army GPS UE includes the Miniaturized Airborne GPS Receiver (MAGR), (a NDI 5-channel set for Signal Warfare aircraft); the Precision Lightweight GPS Receiver (PLGR), (a NDI receiver for ground users and host vehicles); and the NDI Stand Alone Air GPS Receiver (SAGR) and the Cargo Utility GPS Receiver (CUGR), (satisfy Army requirements for low dynamic Army aviation in the non-modernized fleet). Future Army GPS UE will include the Defense Advanced GPS Receiver (DAGR) (handheld); GPS Receiver Applications Module (GRAM) (embedded); and GPS/Inertial Navigation System (GPS/INS) (GPS with INS back-up). This new UE is scheduled for fielding to the Army during the FY01-FY06 timeframe and will include significant anti-jam and anti-spoof capabilities as a result of the ongoing Navigation Warfare (NAVWAR) Program.

JUSTIFICATION:

The FY-99 program will sustain the Product Manager's administrative cost, upgrade PLGR software, continue to field receivers. It will also allow for participation in the joint service effort to enhance GPS receiver anti-jam and anti-spoof capabilities under the Navigation Warfare (NAVWAR) Program; to modernize GPS as a dual use technology; and to initiate procurement of the Defense Advanced GPS Receiver (DAGR). The FY-99 program will also allow for integration efforts for Army MAGR requirements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47600))		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
Hardware:									
1. Aircraft MAGR		219	12	18	1350	74	18		
2. Ground PLGR		23266	20780	1	15330	15000	1		
3. SAGR		600	200	3					
4. CUGR		14400	785	18					
PLGR Software Upgrade									
AWE Support									
Engineering Support:									
Service Support Contracts		2240			2000			1750	
Government In-House		1661			1950			1800	
Integration Engineering		375			200			365	
Test and Evaluation (DAGR)									
Engineering Change Orders									
Documentation		2300			2100			425	
Total Package Fielding									
Technical/Logistics Support		475			400			300	
Program Management Administration									
GPS VTXI		2100			1800			1300	
721									
TOTAL		48532			26130			5432	6866
NOTE: Quantities shown are actual quantities procured.									

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Hardware:											
1. Aircraft MAGR FY 96	Rockwell Collins, Cedar Rapids, Iowa	C/FPI/Opt	USAF, Los Angeles AFB	Mar-96	Jun-97	12	18	Yes			
FY 97	Rockwell Collins, Cedar Rapids, Iowa	C/FPI/Opt	USAF, Los Angeles AFB	Mar-97	Jun-98	74	18	Yes			
2. Ground PLGR FY 96	Rockwell Int'l, Cedar Rapids, IA	C/FFP/Opt	USAF, Los Angeles AFB	Mar-96	Sep-96	20780	1	Yes			
FY 97	Rockwell Int'l, Cedar Rapids, IA	C/FFP/Opt	USAF, Los Angeles AFB	Mar-97	Sep-97	15000	1	Yes			
3. SAGR FY 96	Trimble Nav, Sunnyvale, CA	SS/FFP	USA CECOM, Fort Monmouth, NJ	Apr-96	Jul-96	200	3	Yes			
4. CUGR FY 96	Trimble Nav, Austin, TX	C/FFP	USA CECOM, Fort Monmouth, NJ	Sep-96	Dec-97	785	18	Yes			
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No:										February 1998		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										P-1 Item Nomenclature:		
Program Elements for Code B Items:										GROUND COMMAND POST (BC4001)		
Code:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	5.9	0.8	0.7	0.6							8.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		5.9	0.8	0.7	0.6							8.0
Initial Spares												
Total Proc Cost	0.0	5.9	0.8	0.7	0.6							8.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Milstar Ground Command Post Terminals (GNDCP) - AN/FRC-181(V1) (fixed) and AN/TRC-194(V1) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDCP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCNET operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of seven (7) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.

JUSTIFICATION:

Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) was accepted by the Army for operation in Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. The FY98 funds will be utilized for Total Package Fielding (procurement of support items, special tools, repair parts, GFE, and generators) for fielding the SHAPE, BE terminal. This terminal will be operated and maintained by Army personnel to support CINC and NCA missions. There are no FY99 funds.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GROUND COMMAND POST (BC4001)			Weapon System Type:			Date: February 1998		
OPA Cost Elements	ID CD	FY 96			FY 97			FY 98			FY 99			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
Total Package Fielding Modifications		392 75 289			340 70 297			297 53 222						
In-House Costs & Fielding Support														
TOTAL		756			707			572						

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No.												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SMART-T (SPACE) (BC4002)	
Program Elements for Code B Items:												Other Related Program Elements:	
0303142A												Code: B	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost		51.4	33.1	22.2	57.7	63.0	43.2	15.6	10.7	8.5	305.5		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		51.4	33.1	22.2	57.7	63.0	43.2	15.6	10.7	8.5	305.5		
Initial Spares			1.6	1.0	1.4	0.0	2.8	2.6	2.0	1.1	12.4		
Total Proc Cost		51.4	34.7	23.3	59.2	63.0	46.0	18.2	12.6	9.5	317.9		
Flyaway U/C		2.0	1.3	N/A	1.1	0.7	0.9						
Wpn Sys Proc U/C		2.6	1.4	N/A	1.3	0.8	1.0						

DESCRIPTION:

SMART-T is a multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE), a critical requirement demonstrated during Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE Line of Sight capability. These terminals will triple the battlefield capability with respect to Command, Control and Communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any MIL-STD-1582 B/C compatible payloads.

JUSTIFICATION:

FY99 funds procure 45 Full Rate Production (FRP) terminals and associated failure-free warranty for the US Army; completes Total Package Fielding of Low Rate Initial Production (LRIP) terminals to US Army; procures contractor logistics, fielding and training support services; conducts Milstar Intersegment Tests and completes Reliability Growth Test (RGT); installs and achieves operational capability of interactive training device at resident school facilities.

The SMART-T acquisition strategy was developed to optimize the fullest on-orbit capability of the Milstar Medium Data Rate (MDR) payload. The SMART-T will be the only fielded Milstar MDR capable terminal at the time of satellite launch.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature: SMART-T (SPACE) (BC4002)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
SMART-T		Raytheon Co., Marlborough, MA		C/FP	CECOM	Feb-96	Mar-98	20	1374	Yes		
FY 96		Raytheon Co., Marlborough, MA		C/FP/OPT	CECOM	Dec-96	Dec-98	23	894	Yes		
FY 97		Raytheon Co., Marlborough, MA		C/FP/OPT	CECOM	Oct-98	Apr-00	45	925	Yes		
FY 99												

REMARKS: 1) FY 96 & FY 97 - LRIP 2) PB 98 procures 313 Joint Service requirements: - Army = 209 - USAF = 73 - JCSE = 6 - USMC = 25 313	3) No terminals procured in FY98; funds procure contractor time and material support of fielding, logistics test support, and training activities.
--	--

FY 98 / 99 BUDGET PRODUCTION SCHEDULE																	
P-1 Item Nomenclature: SMART-T (SPACE) (BC4002)																	
Date: February 1998																	
M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02											
						Calendar Year 02											
						O C T	N V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
COST ELEMENTS						Fiscal Year 03											
SMART-T						O C T	N V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
	1	95&PR	A		0												
	1	FY96	A	20	20												
	1	FY97	A	23	23												
	1	FY98	A		0												
	1	FY99	A	45	45												
	1	FY00	A	77	52	25	5	4	4	4	4						
	1	FY01	A	44	0	44											
	1	FY97	AF	9	9						8	9	9	5	5	5	3
	1	FY98	AF		0												
	1	FY99	AF	20	20												
	1	FY00	AF	26	0	26	3	3	5	5	5	5					
	1	FY01	AF	18	0	18											
	1	FY99	JCSE	2	2												
	1	FY00	JCSE	2	0	2		1	1								
	1	FY01	JCSE	2	0	2											
	1	FY99	MC	24	24												
	1	FY00	MC	1	0	1											
TOTAL																	
						9	9	9	9	9	9	9	9	9			
																</	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SCAMP (SPACE) (BC4003)	
Program Elements for Code B Items:												Other Related Program Elements:	
0303142A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost			20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)			20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Initial Spares													
Total Proc Cost			20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Flyaway U/C													
Wpn Sys Proc U/C													

The SCAMP BLK I Terminal will provide a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are to be employed by units that require range extension for command and control communications. Block I will provide priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP BLK I will be fully interoperable within the Army C4I Technical Architecture. The terminal will have embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP BLK I will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP BLK I is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

JUSTIFICATION:
FY99 funds Total Package Fielding (TPF) of 93 Army Block I terminals procured in FY97, supports Joint Intersegment and Warfighter Interoperability Tests and incorporates modifications. Army Block I terminals are designated for Commanders at Division and Above levels. The DoD successfully launched two Milstar LDR EHF frequency waveband satellites in Feb 94 and Nov 95. SCAMP Block I provides manportable EHF/LDR communications in support of the on-orbit satellites.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
B		Contract Terminal Cost	11144	57	196	7239	93	78	8389	196	43	1333		
		Engineering Support	1757			1973			2543			656		
		System Project Mgmt Gov't	3495			2075			1412					
		System Engineering	740											
		System Test	1434			63			1410			298		
		Training	89			10								
		Data	886											
		Fielding	512			2996			2760			2421		
		TOTAL	20057			14356			16514			4708		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware										
FY 96	Rockwell Collins, Richardson, TX	C/FP	CECOM	Feb-96	Jul-98	57	196	Yes		
FY 97	Rockwell Collins, Richardson, TX	C/FP	CECOM	Dec-96	Dec-98	93	78	Yes		
FY 98	Rockwell Collins, Richardson, TX	C/FP	CECOM	Jan-98	Dec-99	196	43	Yes		
REMARKS: Multi-Service Procurement of a total of 514 SCAMP BLK I - Army = 346 - USAF = 154 - JCSE = 8 - Army INSCOM = 6										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date: February 1998		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										P-1 Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2
Initial Spares												
Total Proc Cost					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Global Broadcast Service (GBS) is a joint service program that responds to the need for a continuous, high-speed, one-way broadcast of high volume multi-media information such as imagery, maps, weather data, logistics, air tasking orders, etc., to users worldwide. GBS is an integral part of the Defense Information Infrastructure (DII) and a part of the overall DoD Milsatcom architecture. The DoD GBS initiative was formalized by a Joint Acquisition Decision Memorandum, 27 Mar 96. The Army will be the GBS Joint Project Office's (JPO) Product Lead for the Fixed Receive Suites (FRS) and Transportable Receive Suites (TRS) acquisition for all users.

The GBS Receive Suites consist of a small satellite tracking and receiving antenna which receives and demodulates the RF downlink signal into a bit stream for receive broadcast management computer to decrypt and distribute to end users. An in-theater injection capability via Theater Injection Points (TIPs) will be designed to broadcast vital Commander in Chief (CINCPAC) Commander Joint Task Force (CJTFF) in-theater information to in-theater receive suites.

The Phase II GBS Program will take maximum advantage of existing technology and satellite capability. A competitive, best value contract was awarded Nov 97 which will leverage commercial items.

JUSTIFICATION:

FY 99 funds will procure 32 Transportable Receive Suites. The need for the GBS communication system was validated by the Joint Requirements Oversight Committee (JROC) in a Joint Mission Need Statement, dtd 3 Aug 95, and Joint Operational Requirements Document, dated 7 Apr 97. The GBS Phase II concept was validated by use of a GBS Phase I demonstration system in support of the Bosnia peace mission and Joint Warfighting Interoperability Demonstration (JWID) 95.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)				Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
OPA Cost Elements													
Receive Suite (H/W, SW) TRS Config 3												651	5
TRS Config 2												1611	27
Transmit Suite													
Theater Injection Pt. (TIP) (HW/SW)							2953	1	2953				
Engineering							2236						
Fielding												679	
Test												274	
Data, Logistics, Training												1721	
ECO's												224	
Joint In-Theater Injector Upgrade												713	
TOTAL							9821					5873	

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Transmit Suites (FY 98) TIP	Raytheon, Reston, VA	CPAF/OPT	USAF GBS JPO LA, CA	Feb-98	Jul-99	1	2953	YES			
Receive Suite (H/W, S/W) (FY 99) TRS Config 3 TRS Config 2	Raytheon, Reston, VA Raytheon, Reston, VA	CPAF/OPT CPAF/OPT	GBS, JPO LA, CA GBS, JPO LA, CA	Nov-98 Nov-98	Sep-99 Sep-99	5 27	130 60	YES YES			
REMARKS: <ol style="list-style-type: none"> 1. Army is procuring Theater Injection Points (FY98 Option) and Receive Suites (FY99 Option) via AF Contract awarded Nov 97. 2. TRS - Transportable Receive Suites 3. TIP - Theater Injection Point 											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												MOD OF IN-SVC EQUIP (TAC SAT) (B88417)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	4	20	20								44	
Gross Cost	237.3	4.9	9.5	5.4	2.0	0.0	0.0	0.0	0.0	0.0	260.7	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	237.3	4.9	9.5	5.4	2.0	0.0	0.0	0.0	0.0	0.0	260.7	
Initial Spares												
Total Proc Cost	237.3	4.9	9.5	5.4	2.0	0.0	0.0	0.0	0.0	0.0	260.7	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program will provide a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control and Communication (C3) needs not satisfied by conventional terrestrial communications systems. The (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod Of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment.

JUSTIFICATION: The FY 99 funds will be used to manage and field prior year procurements of Lightweight High Gain X-Band Antennas (LHGXA). This program will allow the warfighter access to the Defense Satellite Communications System in support of reach-back communications requirements for power projection. This is in line with the continued upgrades of Army tactical satellite communications equipment.

Exhibit P-40M Budget Item Justification Sheet

Date _____

February 1998

Appropriation / Budget Activity/Serial No.

P-1 Item Nomenclature

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)

Program Elements for Code B Items

Code

Other Related Program Elements

Description

Fiscal Years

OSIP NO.	Classification
----------	----------------

[illegible]

Multi-Channel Initial System (MCIS)

1-84-07-0019
Operational

	Operational	2.0	1.5	0.0	0.0	0.0	23.3
1-84-07-0019	Operational	14.4	5.4	2.0	1.5	0.0	0.0
1-84-07-0019	Operational	14.4	5.4	2.0	1.5	0.0	0.0

	14.4	5.4	2.0	1.5	0.0	0.0	0.0
Totals	14.4	5.4	2.0	1.5	0.0	0.0	0.0

INDIVIDUAL MODIFICATION																			
Date												February 1998							
MODIFICATION TITLE: Multi-Channel Initial System (MCIS) 1-84-07-0019																			
MODELS OF SYSTEMS AFFECTED: N/A																			
DESCRIPTION / JUSTIFICATION: Installation of antennas not required.																			
NOTE: Page 2 of P3a FY 96 and prior shows funding only for LHGXA. Dollars for cancelled AJ program are not included.																			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: N/A																			
As a result of contractor claim, the FY 97 award has been delayed to March 1998.																			
Installation Schedule:																			
Inputs Outputs	Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000			FY 2001		
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs Outputs	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
METHOD OF IMPLEMENTATION:																			
Contract Dates: FY 1997 Mar-98 FY 1998 FY 1999 FY 1999																			
Delivery Date: FY 1997 Oct-98 FY 1998 FY 1999 FY 1999																			
PRODUCTION LEADTIME: 20 Months																			

INDIVIDUAL MODIFICATION														February 1998					
Date																			
Multi-Channel Initial System (MCIS) 1-84-07-0019																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
24		20																44	
RDT&E																			
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kits, Nonrecurring																			
Equipment	4.8		3.2																8.0
Equipment, Nonrecurring	3.1																		3.1
Engineering Change Orders																			0.4
Data	0.4																		1.1
Training Equipment	0.7		0.4																2.6
Support Equipment	1.5		0.4		0.4														2.1
Other	0.1		0.6		0.8		0.6												6.0
Interim Contractor Support	3.8		0.8		0.8		0.6												
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits																			
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
TC Equip-Kits																			
Total Installment																			
Total Procurement Cost	14.4		5.4		2.0		1.5												23.3

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												MSE MOD IN SERVICE (BB1611)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												BB1610, BB1600, BA1010	
A													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost		33.3	17.0	10.1							60.4		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		33.3	17.0	10.1							60.4		
Initial Spares													
Total Proc Cost	0.0	33.3	17.0	10.1							60.4		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The Mobile Subscriber Equipment (MSE) Modification in Service Line funds for high priority Echelons Corps and Below (ECB) system improvements.

JUSTIFICATION:
The ECB portion of the Area Common User System-Modernization Plan (ACUS-MP) has been moved to the ACUS MOD Program (WIN - T) SSN BB1600 FY 98 and beyond.

INDIVIDUAL MODIFICATION														
MODIFICATION TITLE: ECB Area Common User System Modernization Plan														Date
February 1998														
MODELS OF SYSTEMS AFFECTED: NETWORK MANAGEMENT AND CONTROL, SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS														
DESCRIPTION / JUSTIFICATION:														
<p>The ACUS is an area switched communications system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Enhancements to systems, some unique to ECB, incorporate either through modification or redesign efforts improvements in switching, network control, transmission and subscriber terminal equipment. Enhancements within this ACUS-MP will provide future interfaces between the ECB Communications Network and Joint or Combined Forces.</p>														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:														
N/A														
Installation Schedule:														
Pr Yr		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001				
Totals		1	2	3	4	1	2	3	4	1	2	3	4	
Inputs														
Outputs														
Totals														
Inputs														
Outputs														
Totals														
METHOD OF IMPLEMENTATION:														
Contract Dates:		FY 1997		Enter t Dec/Jan		FY 1998		Enter Date		ADMINISTRATIVE LEADTIME: 2 Months		PRODUCTION LEADTIME: 24 Months		
Delivery Date:		FY 1997		Enter t Variable		FY 1998		Enter Date		FY 1999		Enter Date		

INDIVIDUAL MODIFICATION													
ECB Area Common User System Modernization Plan													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits, Nonrecurring													
Equipment		50.3		5.8									56.1
Equipment, Nonrecurring				3.6									3.6
Engineering Change Orders				0.7									0.7
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- Kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation		50.3		10.1									60.4
Total Procurement Cost													

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
P-1 Item Nomenclature:												SOUTHCOM HQ RELOCATION (BU4000)
Program Elements for Code B Items:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Initial Spares												
Total Proc Cost	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: In accordance with the Panama Canal Treaty, US Army Southern Command (SOUTHCOM) Headquarters must relocate by CY 1999. This program supports the relocation requirement for establishment of the C4I communications infrastructure at the new headquarters location. This project will meet the requirement from the Commander-in-Chief, SOUTHCOM (CINCSO) to support mission accomplishment throughout the spectrum of warfare, during both peace and war, from crisis buildup through war termination.

JUSTIFICATION: FY99 OPA funds are not required for this program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2/ Communications and Electronics Equipment				P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Engineer, Furnish, Install, & Test (EFI&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation													
A		8833	1	8833	17835	1	17835						
A		6966	1	6966	713	1	713						
A		189	7	27									
A		1412	1	1412	447	1	447						
Automated Message Handling System													
A					263	1	263						
A					225	1	225						
A					174	1	174						
A					300	1	300						
A					187	VAR	VAR						
A					318	1	318						
TOTAL		17400			20462								

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
Engineer, Furnish, Install, & Test (EFI&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation									
FY 96				C/Other*	CECOM	Apr-96	Sep-96	1	8833
FY 97				OPTION	CECOM	Dec-96	Jan-97	1	17835
C4I Infrastructure									
FY 96				C/FP	Corps of Engineers	Apr-96	Aug-96	1	6966
FY 97				C/FP	Corps of Engineers	Nov-96	Feb-97	1	713
UHFSATCOM Radios									
FY 96				C/FP	CECOM	Jun-96	Jun-97	7	27
Red Switch - Furnish/Install									
FY 96				C/FP	DISA	May-96	Jan-97	1	1412
FY 97				OPTION	DISA	Nov-96	Jan-97	1	447
Automated Message Handling System									
FY 97				C/FP	CECOM	Feb-97	Mar-97	1	263
Defense Information System Network (DISN)									
FY 97				CFP	DITCO	Feb-97	Mar-97	1	225
Joint Worldwide Intell Comm Sys (JWICS)									
FY 97				C/FP	Virginia Contracting Activity	Jan-97	Mar-97	1	174
REMARKS: * Other - Time and Materials DITCO - Defense Information Technical Contracting Office DISA - Defense Information Systems Agency CECOM - Communications - Electronics Command									

Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Communications Support Processor FY 97		STERLING SOFTWARE	C/FP	Electronis System Center	Feb-97	Apr 97	1	300			
COMSEC FY 97		VAR*	IDIQ	USACCSLA	Feb-97	Apr 97	VAR	VAR			
Matrix Switch FY 97		GENERAL SIGNAL NETWORKS	C/FP	CECOM	Feb-97	Apr-97	1	318			
REMARKS: *VAR - Motorola, Gov't Systems Group, Scottsdale, AZ, Allied Signal Aerospace, Baltimore, MD General Signal Networks, Mt Laurel, NJ USACCSLA - US Army CECOM Communications Security Logistics Activity											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	35.4	13.0	15.3	20.3	16.8	13.2	8.7	6.4	6.4	84.5	240.6	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	35.4	13.0	15.3	20.3	16.8	13.2	8.7	6.4	6.4	84.5	240.6	
Initial Spares												
Total Proc Cost	35.4	13.0	15.3	20.3	16.8	13.2	8.7	6.4	6.4	84.5	240.6	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Global Command and Control System-Army (GCCS-A) will provide the Army's interface to Joint Staff Global Command and Control System (GCCS) program. GCCS-A is being implemented in accordance with the GCCS concept of Defense Information Infrastructure Common Operating Environment (DII COE) and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The GCCS-A is the integration of software, hardware and communication architecture supporting strategic and tactical environments. The software development requirements for GCCS-A will be satisfied through a single systems engineering and integration contract which was awarded in December 1994. The intent is to field an integrated command and control (C2) system that provides standard, modular, system support and application software support capable of supporting a "tailored" set of functional applications and compatible, integrated exchange of data both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. GCCS-A will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS), Army Commanders in Chiefs (CINCs), Army Commands and Components, and Army elements within the Pentagon. The GCCS-A will support all staff sections within a headquarters, and all phases of conflict.

JUSTIFICATION: FY 99 funds will support the procurement and fielding of GCCS-A at all Army-managed worldwide command and control sites. Fielding of GCCS-A is mandatory in order for the Army to remain in lock step with GCCS milestones, and support the Army Battle Command System. Funds also support the DCSOPS, DISC4, and the TRADOC System Manager (TSM) directed establishment of Regional Training Centers (RTCs) in FY 99.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
	A	1. Sun Enterprise 4000	572	2	286	2856	10	286				1400	4	350
		2. Sun Sparc 20 (V1 Theater WAN Server)	1307	30	44									
		3. Sun Sparc 20 (V2 Theater LAN Server)	260	5	52	890	20	45						
		4. Sun Sparc 20 (V1 Theater LAN Server)	4356	143	30									
		5. Sun Sparc 20 (V1 Application Server)	868	23	38									
		6. PC (Pentium Class) User Workstations				2092	490	4	450	100	4	2093	465	4
		7. Laptop Computers				198	35	6						
		8. Ultra Sparc Server				1398	40	35	2574	78	33	2115	47	45***
		9. Sparc 20 Transit Cases				34	40	1				975	15	65***
		10. Nexar Transit Cases				40	80	1				57	15	4
		11. Bill of Material (BOM)*	2115									20	40	1
		12. Fielding	826			2658			1242			872		
		13. Technical Insertion				2035			1745			1900		
		14. Informix Enterprise License	4950						591			355		
		15. DII COE Complaint software				5954			1582			1593		

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		16. PMO Fielding Support							3500			2500		
		17. First Digitized Division							883			892		
		18. Regional Training Centers							4240			5790		
		TOTAL	15254			20340			16807			20562		
*Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.														
**Commercial														
***Hardened														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)						
WBS Cost Elements:	Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Sun Enterprise 4000 FY 96 FY 97 FY 99		GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA	IDIQ IDIQ IDIQ	CECOM CECOM CECOM	Mar-96 Jun-97 Feb-99	Aug-96 Aug-97 Jun-99	2 10 4	286 286 350	YES YES YES		
2. Sun Sparc 20 (V1 Theater WAN Server) FY 96		GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	30	44	YES		
3. Sun Sparc 20 (V2 Theater LAN Server) FY 96 FY 97		GTE, Taunton, MA GTE, Taunton, MA	C/OPTION C/OPTION	CECOM CECOM	Feb-96 Dec-96	Jun-96 May-97	5 20	52 45	YES YES		
4. Sun Sparc 20 (V1 Theater LAN Server) FY 96		GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	143	30	YES		
5. Sun Sparc 20 (V1 Application Server) FY 96		GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	23	38			
6. PC (Pentium Class) User Workstations FY 97 FY 98 FY 99		GTSI, Chantilly, VA GTSI, Chantilly, VA GTSI, Chantilly, VA	IDIQ IDIQ IDIQ	FEDSIM/FT Huachuca FEDSIM/FT Huachuca FEDSIM/FT Huachuca	Dec-96 Feb-98 Feb-99	May-97 Apr-98 Apr-99	490 100 465	4 4 4	YES YES YES		
7. Laptop Computers FY 97		GTSI, Chantilly, VA	IDIQ	GSA, Kansas City, KS	May-97	Sep-97	35	6	YES		
REMARKS:											

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
8. Ultra Sparc Server FY 97 (Commercial) FY 98 (Commercial) FY 99 (Commercial) (Hardened)	GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA	C/OPTION C/OPTION C/OPTION C/OPTION	CECOM CECOM CECOM CECOM	Jul-97 Feb-98 Feb-99 Feb-99	Aug-97 Jun-98 Jun-99 Jun-99	40 78 47 15	35 33 45 65	YES YES YES YES		
9. Sparc 20 Transit Cases FY 97 FY 99	Thermodyne Int'l, Ontario, CA GTE, Taunton, MA	FFP C/OPTION	GSA, Kansas City, KS CECOM	Jul-97 Feb-99	Sep-97 Jun-99	40 15	1 4	YES YES		
10. Nexar Transit Cases FY 97 FY 99	Thermodyne Int'l, Ontario, CA Thermodyne Int'l, Ontario, CA	FFP FFP	GSA, Kansas City, KS GSA, Kansas City, KS	Jul-97 Feb-99	Sep-97 Apr-99	80 40	1 1	YES YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	393.3	9.5	44.6	77.5	67.2	42.3	39.2	38.0	48.4	3216.0	4000.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	393.3	9.5	44.6	77.5	67.2	42.3	39.2	38.0	48.4	3216.0	4000.0
Initial Spares											
Total Proc Cost	393.3	9.5	44.6	77.5	67.2	42.3	39.2	38.0	48.4	3216.0	4000.0
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Army Data Distribution System (ADDS) is a Command, Control, and Communication (C3I) network consisting of the Data Radios Systems: Enhanced Position Location Reporting System (EPLRS) and Near Term Digital Radio (NTDR). EPLRS is a direct outgrowth of the Army/United States Marine Corps (USMC) Position Locating Reporting System (PLRS) and provides battlefield commanders combat information on the position of their forces in addition to supporting the majority of the data communication needs of the multitude of computers to be fielded as part of the Army Tactical Command and Control System (ATCCS) and battlefield digitization efforts. EPLRS is the primary data communications means in the division and corps until the FY04 time frame. The Wide Band Data Radio provides greater data transmission capability, is upgraded via software and is consistent with the evolving PMCS reference model architecture. The Army is fielding ATCCS to automate and increase the effectiveness of the five Battlefield Functional Areas (BFA): Maneuver Control, Fire Support, Air Defense, Intelligence, and Combat Support. ADDS is essential to support tactical operations on the automated battlefield with reliable, real-time, secure, jam resistant data communications and position location capabilities. It has been designed specifically to meet the data communication requirements of emerging computer and sensor systems.

JUSTIFICATION:

EPLRS: The FY99 budget will allow the Army to procure 201 additional Enhanced PLRS User Unit (EPUU) Radio Sets (RSs) and continue the fielding of prior year hardware procurements to contingency Corps units. The FY99 budget will also provide for New Equipment Training (NET), integration, ECOs, life cycle software engineering and program management support.

Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements				FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A															
Enhanced Position Location Reporting System (EPLRS)															
Hardware EPUU RS (1,3)		13422	325	41	40372	1100	37	30771	1774	17	6668	201			33
Hardware NCS-E(D)		5678	7	811	3246	5	649	3719	6	620					
Engineering Support															
Contractor System Engineering		1348			7457			8113			2740				
Government In-House		2349			2161			2178			2161				
Engineering Change Orders (ECOs)		188			8650			3161			196				
Integration/Installation/Retrofit (2)		1699			5026			5583			4430				
Training		510			276			46			68				
Life Cycle Software Engineering		550			1066			1244			1069				
Tooling, Test Equipment / NR		1123			860										
Testing		9315			406			4511			584				
Contractor Project Management		994			3552			3644			1066				
Project Management Administration		1594			1587			1596			1205				
Data		437			170			66			69				
Total Package Fielding		5356			2675			2531			3792				
TOTAL		44563			77504			67163			24048				
(1) Hdw EPUU RS costs include EPLRS FRP procurement. Procurement in FY97 includes material for the FY98 qty of 1774.															
(2) FY97 & 98 incl procurement of EPUU retrofit kit and FY99 incl field retrofit and reburn.															
(3) EPUU RS (Radio Set) Consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.															

- (1) Hdw EPUU RS costs include EPLRS FRP procurement. Procurement in FY97 includes material for the FY98 qty of 1774.
- (2) FY97 & 98 incl procurement of EPUU retrofit kit and FY99 incl field retrofit and return.
- (3) EPUU RS (Radio Set) Consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1998										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Army Data Distribution System (ADDS)										
Enhanced Position Location Reporting System (EPLRS)										
Hardware EPUU RS	Hughes Aircraft Co., Forest, MS	SS/FFP	CECOM	Mar-96	Nov-97	325	41			Oct-95
FY 96				Sep-97	Jan-99	1100	37	NO	Dec98	Mar-97
FY 97				Sep-97	Jan-99	957	17	NO	Dec98	Mar-97
FY 98				Dec-98	Nov-00	817	17	NO	Dec98	Mar-97
FY 99				Mar-99	Feb-02	201	33	YES		Mar-97
Hardware NCS-E(D)	CECOM / C2SID *	MIPR	CECOM	Nov-95	Mar-97	7	811	YES	NA	NA
FY 96				Sep-97	Aug-98	5	649	YES	NA	NA
FY 97				Dec-97	Jan-99	6	620	NO	NA	NA
FY 98										

REMARKS: The EPUU Radio Set consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.

The FY97-FY98 EPUU RS contract is one Multiyear award in FY97 for 2057 EPUUs.

* Command and Control Systems Integration Directorate

Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No:										February 1998		
P-1 Item Nomenclature:												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)		
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	4460.5		3.3	6.0								4469.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4460.5		3.3	6.0								4469.8
Initial Spares												
Total Proc Cost	4460.5		3.3	6.0								4469.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The Mobile Subscriber Equipment (MSE) Communications System is a fielded area switching and radio communication system providing Corps and Division, mobile and wire-line users automatic secure dial telephone service for both voice and data. MSE provides uninterrupted communication which enables commanders and staffs to exercise command and control from both mobile platforms and Command Posts which may be dispersed or massed, and requires frequent relocation due to enemy threat and conduct of battle.

JUSTIFICATION:
The Echelons Corps and Below (ECB) portion of the Area Common User Systems - Modernization Plan (ACUS-MP) has been moved to the Joint Tactical Area Comms Sys line SSN BA1010 FY 98 and beyond.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. PROJ MANAGEMENT ADMIN	-	1927			2000								
2. GOVT/CONT ENGINEERING	-	1409			1261								
3. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS-MP) (TRAINING DEVICE UPGRADE)	A				2708								
TOTAL		3336			5969								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS - MP) TDU 1997	GTE TAUNTON, MA	SS/CPAF	CECOM	Feb-97	Jun-98	N/A	N/A	YES		
REMARKS: Quantity/Unit Cost not applicable. Systems are being procured as software enhancements/engineering change proposals (ECPs).										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SINGGARS FAMILY (BW00006)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	96729	23797	31302	32847							184675		
Gross Cost	1696.8	344.7	311.3	285.2	13.2	13.5	0.0	0.0	0.0	0.0	3019.5		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1696.8	344.7	311.3	285.2	13.2	13.5	0.0	0.0	0.0	0.0	3019.5		
Initial Spares	14.1	1.9	1.3	1.5	1.4						21.8		
Total Proc Cost	1710.9	346.6	312.6	286.7	14.6	13.5	0.0	0.0	0.0	0.0	3041.3		
Flyaway U/C	0.0150	0.0139	0.0097	0.0097							0.0134		
Wpn Sys Proc U/C	0.0158	0.0145	0.0102	0.0102							0.0141		

DESCRIPTION:

The Single Channel Ground and Airborne Radio System (SINGGARS) is the VHF-FM Radio Communications System providing the primary means of command and control for infantry, armor, artillery, and Army aviation units. It possesses capabilities and improvements over the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its Frequency-Hopping jam resistant capability will offset the current threat of jamming techniques used against the existing family of fixed frequency radios. SINGGARS continues its evolutionary development with the fielding of the SINGGARS System Improvement Program (SIP) radio. The SINGGARS SIP radio provides for enhanced data and voice communications while using commercial Internet Protocols within an Internet Controller. The SINGGARS SIP radio forms the linchpin of the Tactical Internet and is a major contributor to the Army digitization effort. It will assist commanders in conducting the battle on the digitized battlefield. SINGGARS is used in such systems as PATRIOT, M1A2 Tank Improvement Program, Paladin, and Longbow Apache.

JUSTIFICATION:

Funding in FY 99 and out will support completion of the fielding program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SINCGARS - AIRBORNE (J30500)				Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each				
A	AIRBORNE HARDWARE HARDWARE KITS GOVERNMENT ENGINEERING DATA GRM-122 UPGRADE AIRBORNE ASIP FIELDING ENGINEERING SUPPORT TOTAL	11813 214 155 398 12580	481	24559	11827	815	14512	5733 373 133 1500 1500 9239					
NOTE: QUANTITIES SHOWN ARE ACTUAL PROCUREMENT QUANTITIES.													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SINCGARS - AIRBORNE (J30500)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AIRBORNE HARDWARE FY 96 FY 97	ITT, FT WAYNE, IND ITT, FT WAYNE, IND	SS/FFP/OPT SS/FFP/OPT	CECOM CECOM	May-96 Apr-97	Jun-97 Jun-98	481 815	24559 14512	Yes Yes		
REMARKS: FY 98 program is for airborne retrofit kits. Quantities shown are actual procurement quantities.										

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SINCGARS - GROUND (B00500)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		TotalCost	UnitCost	Qty	UnitCost
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$	Each	\$
A	HARDWARE ITT	123814	12802	9671	165978	30487	5444	154773	32847	4712			
	HARDWARE GD	105626	10514	10046	12000			28114					
	PRIOR YEAR REL FEE CONT LIABILITY				26700								
	CONTRACTOR ENGINEERING SUPPORT	22449											
	DATA												
	ECPS	11015			6297			17201					
	GOVERNMENT ENGINEERING	9805			6896			5649			557		
	PROJECT MANAGEMENT ADMINISTRATION	3800			2453			4267					
	OTHER HARDWARE	37573			45103			47701					
	TEST				5550			6421					
	FIELDING												
	NEW EQUIPMENT TRAINING	5231				4132			3227		4700		
	TPF	9155				10598			8607		7955		
TOTAL		328468			285707			275960		13212			
NOTE: PROCUREMENT QUANTITIES SHOWN ARE ACTUALS FOR FY 96 AND FY 97 AND PLANNED FOR FY 98.													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SINGGARS - GROUND (B00500)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
HARDWARE ITT	ITT, FT. WAYNE, IND	C/FP/IF	CECOM	Apr-96	Jun-97	12802	9671	Yes		
FY 96	ITT, FT. WAYNE, IND	C/FP	CECOM	Apr-97	Jun-98	30487	5444	Yes		
FY 97	ITT, FT. WAYNE, IND	C/FP/OPT	CECOM	Apr-98	Aug-99	32847	4712	Yes		
FY 98										
HARDWARE GD	GD, TALLAHASSEE, FL	C/FP/IF	CECOM	Apr-96	Aug-97	10514	10046	Yes		
FY 96										
REMARKS: Quantities shown are actuals for FY 96 and FY 97 and planned for FY 98.										

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: BATTLEFIELD ELECTRONIC COMM SYS (BECS) (Z16800)		Weapon System Type:		Date: February 1998		
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A	DATA TRANSFER DEVICE	1239	1575	1	4854	6168	1			
	GOVERNMENT ENGINEERING	609			860					
	DOCUMENTATION	308			232					
	FIELDING	329			283					
	LRIP DTD UPGRADE				4399	7884	1			
	PRODUCTION DTD UPGRADE	9031			944					
	CONTRACTOR ENGINEERING	2189			1924	215	9			
	CHS UPGRADE WORKSTATION									
TOTAL		13705			13496					
NOTE: QUANTITIES SHOWN ARE ACTUAL QUANTITIES.										

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:											
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date	
DATA TRANSFER DEVICE			ALLIED SIGNAL, TOWSON MD		C/FP/OPT NSA				Jun-96	Jul-97	1575	1	YES			
FY 96			ALLIED SIGNAL, TOWSON MD		C/FP/OPT NSA				Feb-97	Aug-97	6168	1	YES			
FY 97																
LRIP DTD UPGRADE			GROUP TECHNOLOGIES TAMPA, FL		SS/FP NSA				Mar-97	Sep-97	7884	1	YES			
FY 97																
CHS UPGRADE WORKSTATION			GTE TAUNTON, MA		C/FP/OPT CECOM				Feb-97	Feb-98	215	9	YES			
FY 97																
NOTE: QUANTITIES SHOWN ARE ACTUAL QUANTITIES.																
REMARKS: CHS Workstation Upgrade did not include transit cases, mountings and ancillary items as they were not available/negotiated. They will be purchased in FY 98 under line BA 1201. The cost for these items is not included in the unit price. Accelerated delivery of Data Transfer Devices was provided by Allied Signal in order to meet backlog orders to support FY 97 fielding schedule.																

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nonenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												JOINT TACTICAL AREA COMMS SYS (BA1010)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Initial Spares													
Total Proc Cost	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
Effective FY98, BA1010 funds 2 separate allotments in accordance with (IAW) transfer of PM JTACS equipments to US Army Communications Electronics Command (CECOM), as follows: (1) Funding for Project Manager, Warfighter Information Network-Terrestrial (PM WIN-T) to support personnel/equipments negotiated to remain with the new PM; the WIN is a total information system architecture that supports requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network Army warfighters can use on the 21st century's digitized battlefield and (2) Funding for CECOM Special Project Office, JTACS Systems Branch, and completion of Level II projects.

Exhibit P-40C Budget Item Justification Sheet		Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature JOINT TACTICAL AREA COMMS SYS (BA1010)	
Program Elements for Code B Items	Code	Other Related Program Elements
<p>JUSTIFICATION:</p> <p>PM WIN-T Allocation - FY99 funds are required for the Project Management Administration to support the day to day operations of the Project Manager Office, WIN-T, which includes salaries, travel and training in support of all existing and anticipated contracts; Production Engineering to provide for the necessary government matrix personnel in direct support of the above mission; and Contractor Engineering support to provide support to the Project Manager of a type not available within either Core or Matrix assets. FY 99 funding continues to support the Area Common User System-Modernization Plan (ACUS-MP). The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) system and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The Army will continue to modernize the area common user system in FY 99 and transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable required to increase communication interoperability, reliability and capacity. These improvements are required to support digitization of the battlefield and provide for increased user services by leveraging advances in commercial technology.</p> <p>CECOM/JTACS Systems Branch Allocation - FY99 funds are required to provide Level II Project Management of equipment transferred from PM JTACS to CECOM, to include the completion of QEAM and to support the CECOM Special Projects Office workyear requirements.</p>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMS SYS (BA1010)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
CD		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
PM WIN-T Allotment:									
1. PROJ MANAGEMENT ADMIN		2399			1981			3998	
2. ENGINEERING SUPPORT		1913			2146			4851	
GOVERNMENT/CONTRACTOR									
3. FIELDING/RETROFIT		1463							
4. AREA COMMON USER SYSTEM-		10020			22839				
MODERNIZATION PLAN (ACUS-MP)									
5. DOWNSIZE PROGRAM		24337			13572				
6. QEAM		4070	2000	2	2804				
SUBTOTAL		44202			43342			8849	
CECOM JTACS Systems Branch:									
7. QEAM								200	
8. AN/TYQ-69									
9. AN/GRC-226								876	
10. Project Admin Support								1076	
SUBTOTAL									
TOTAL		44202			43342			9925	

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMS SYS (BA1010)															
Date:				February 1998																	
WBS Cost Elements: Fiscal Years				Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
1. AREA COMMON USER SYS-MODERNIZATION PLAN (ACUS-MP) 1996				GTE, TAUNTON MA		CECOM		May-96 Jun-96 Oct-96		May-97 Jun-97 Jun-98		N/A		N/A		YES					
1997 ATM, ESOP				GTE, TAUNTON MA		CECOM		Jul-97 Jul-97		Nov-98 Jul-98		N/A		N/A		YES					
2. DOWNSIZE PROGRAM 1996 HMDA, D/S CSCE, SSS, TSM-210				LAGUNA IND, ALBUQUERQUE NEW MEXICO		CECOM		May-96 thru Sep-96 Nov-96 thru May-97		May-97 thru Sep-97 Nov-97 thru May-98		N/A		N/A		YES					
1997 HMDA, D/S CSCE, SSS				LAGUNA IND, ALBUQUERQUE NEW MEXICO		CECOM		Jul-97 thru Aug-97		Jul-98 thru Aug-98		N/A		N/A		YES					
3. QUICK ERECT ANTENNA MAST (QEAM)CECOM 1996				TRI EX, VISALIA CA		CECOM		Sep-96		Jun-97		2000		2		YES					
1997				TRI EX, VISALIA CA		CECOM		Aug-97		Aug-98		N/A		N/A		YES					
1998				TRI EX, VISALIA CA		CECOM		Feb-98		Jun-98		N/A		N/A		YES					
1999				TRI EX, VISALIA CA		CECOM		Feb-99		May-99		N/A		N/A		YES					
REMARKS:				The Echelons Corps and Below (ECB) portion of the ACUS-MP (SSN BB1610) has been moved to this line effective FY98. Quantity/Unit Cost not applicable for ACUS-MP and Downsize Programs. Systems are being procured as software enhancements/engineering change proposals/non-recurring engineering efforts and studies. QEAM award in FY 97 is for engineering change proposals to correct deficiencies found during user test and Task Force XXI. FY98/99 supports contractual efforts for ECPs, training videos and warranty revision program.																	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998															
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:								ACUS MOD PROGRAM (WIN-T) (BB1600)																
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Other Related Program Elements:								BB1610, BB1600, BA1010																
Program Elements for Code B Items:			Code:		FY 1997							FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total Prog	
			A																								
Proc Qty			Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog													
Gross Cost		308.0		11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7													
Less PY Adv Proc																											
Plus CY Adv Proc																											
Net Proc (P-1)		308.0		11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7													
Initial Spares																											
Total Proc Cost		308.0		11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7													
Flyaway U/C																											
Wpn Sys Proc U/C																											

DESCRIPTION:
The ACUS MOD PROGRAM (WIN-T) line funds the ongoing and planned modifications to the Area Common User System (ACUS) and supports its migration to the Army's Warfighter Information Network (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. The components of the terrestrial portion of WIN are: (A) The Division Slice is the engineering effort to prove out the institutional upgrade of the legacy area common user system switches with Asynchronous Transfer Mode (ATM); (B) The Switch Modernization procures/fields upgraded capability throughout the Army; (C) The Radio Modernization provides the increased transmission pipes between switches to move voice, data, video, collaborative planning, etc. on the digitized battlefield; (D) Battlefield Video Teleconferencing (BVTC) provides a single standard video terminal on the battlefield; (E) Remote Access Unit Range Extension increases the range a minimum of 50% for the current mobile telephone, and (F) Tactical Internet Manager provides Wide Area Network management and services for the brigade and below portion of the tactical internet. Also included are spares to support all upgrades and associated upgrades to the Training Devices. The objective is for a Force Package (FP) and corresponding slice of Force Support Package (FSP) to be fielded every 3 years after the First Digitized Division (FDD) in FY 00 and First Digitized Corps (FDC) in FY 04. This line also supports ACUS Legacy Systems, such as: DGM Antenna Mast Program (DAMP); AN/TSM-210 Maintenance Shelter; Downsized Communications System Control Element (D/S CSCE).

Exhibit P-40C Budget Item Justification Sheet			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		ACUS MOD PROGRAM (WIN-T) (BB1600)		
Program Elements for Code B Items	Code	Other Related Program Elements		
	A	BB1610, BB1600, BA1010		
<p>JUSTIFICATION:</p> <p>FY 99 continues the Area Common User System-Modernization Plan (ACUS-MP) and provides for the necessary production/contractor engineering support. The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The Army will continue to modernize the area common user system in FY 99 and will transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable to increase communication interoperability, reliability and capacity. The current funding stream supports the fielding of a FP and corresponding slice of a FSP every three years.</p>				

[illegible]

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INDIVIDUAL MODIFICATION																	
MODIFICATION TITLE: EAC Area Common Use System Modernization Plan													Date	February 1998			
MODELS OF SYSTEMS AFFECTED: Network Management and Control, Circuit Switching, Data Switching, Terminals and Transmission Systems																	
DESCRIPTION / JUSTIFICATION:																	
<p>The ACUS is an area switched communication system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. On going and planned modifications to the ACUS will support its migration to the Army's Warfighter Information (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link the diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield.</p>																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE N/A																	
Installation Schedule:																	
Pr Yr		FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																	
Outputs																	
Totals																	
Inputs																	
Outputs																	
Totals																	
METHOD OF IMPLEMENTATION:																	
<p>ADMINISTRATIVE LEADTIM 2-12 Months PRODUCTION LEADTIME 2-24 Months</p>																	
Contract Dates: FY 1997 Enter L Dec/Feb FY 1998 Enter L Dec/Mar FY 1999 Enter Date Dec/Mar																	
Delivery Date: FY 1997 Enter L Variable FY 1998 Enter L Variable FY 1999 Enter Date Variable																	

INDIVIDUAL MODIFICATION													
EAC Area Common Use System Modernization Plan													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits													
Installation Kits, Nonrecurring													
Equipment	331.0		0.4		34.3		61.6		75.2		91.1		2929.4
Equipment, Nonrecurring			10.6		65.0		28.4		22.2		10.2		147.7
Engineering Change Orders			0.6										0.6
Data													
Training Equipment													
Support Equipment													
Engineering Spt-Govt/Contr			1.6										1.6
Other-Spares					3.0		7.1		11.2		13.6		66.3
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- Kits													
FY 2001 Eqpt -- Kits													
FY 2002 Eqpt -- Kits													
FY 2003 Eqpt -- Kits													
TC Equip-Kits													
Total Installment													
Total Procurement Cost	331.0		13.2		102.3		97.1		108.6		114.9		3145.6

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		TAC RADIO (BA1205)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			500	1120								1620
Gross Cost			24.0	35.5								59.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			24.0	35.5								59.5
Initial Spares												
Total Proc Cost			24.0	35.5								59.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The Single Channel Ground and Airborne Radio System (SINGARS) uses Frequency hopping as an electronic counter-countermeasure (ECCM) mode of operation. The TAC Radio (Frequency Hopping Multiplexer) will allow up to four very high frequency-modulation (VHF-FM) radios in the ECCM mode to operate using one mobile or stationary antenna system. It will improve the physical profile and reduce setup and teardown time for command post antenna and reduce cosite interference.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TAC RADIO (BA1205)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
A		HARDWARE	13904	500	27808	26920	1120	24036						
		NON-RECURRING PRODUCTION	6733			1695								
		ENGINEERING CHANGES	1204			5348								
		DATA	869			202								
		CONTRACTOR ENGINEERING	947			968								
		GOVERNMENT ENGINEERING	371			396								
		TOTAL	24028			35529								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: TAC RADIO (BA1205)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE FY 96 FY 97		XETRON CINN OHIO XETRON CINN OHIO		SS/FFP SS/FFP	CECOM CECOM	Mar-96 Mar-97	Aug-97 Apr-98	500 1120	27808 24036			
REMARKS: Quantities are actual procurement quantities.												

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: C-E CONTINGENCY/FIELDING EQUIP (BA5210)										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9	0.0	182.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9		182.3
Initial Spares												
Total Proc Cost	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9	0.0	182.3
Flyaway U/C												
Wpn Sys Proc U/C												

This line is required to fund the fielding costs associated with a variety of Communications-Electronics (C-E) systems and efforts not identifiable to a current major system hardware line. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET), and First Destination Transportation (FDT). TPF efforts include validation of the Materiel Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and handoff of all required equipment and materiel to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed equipment. FDT costs are those associated with the shipping of various C-E equipment from the contractor to the depot.

JUSTIFICATION

The primary efforts to be funded in FY99 are TPF/NET for C-E equipment requirements for the conversion of selected units. Funds will activate multiple brigades with MSE and TRI-TAC capabilities. These conversions are restructured in accordance with (IAW) a downsized force structure. The primary projected efforts to occur in FY99 are the conversions of the 534th Sig Bn and 156 Sig Bn to MSE equipment and the conversion of MSE shelters from Digital Group Multiplexers (DGM) to the newer Transmission Interface Module (TIM) system MSE. These funds will ensure that critical round-out signal units are equipped for the mobile digitized battlefield with GO-TO-WAR systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: C-E CONTINGENCY/FIELDING EQUIP (BA5210)				Weapon System Type:		Date: February 1998			
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
	FIELDING														
	TPF														
	Battlefield Communications Review (BCR)	2572											1570		
	Conversions	1947			493								300		
	CECOM Managed Systems (Non-PEO)	75													
	Upgrade Equipment CINCHAWK														
	NET														
	Satellite Systems	140											100		
	Ground Communications	20											20		
	CECOM Managed Systems (Non-PEO)	331			30								126		
	FDT Various C-E Non-Major Systems	200			46								50		
	TOTAL	5285			569								2166		

Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:		Date:		February 1998							
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		SOLDIER ENHANCEMENT PROGRAM COMME/ELECTRO (BAS300)							
Program Elements for Code B Items:		Code:		Other Related Program Elements:							
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1
Initial Spares											
Total Proc Cost	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their lethality, survivability, mobility, command and control, and sustainment. Commencing in FY98, the item to be procured will be the Soldier Intercom (SI) [formerly identified as the Individual Soldier Radio (ISR)]. The SI is a small voice radio with a tethered speaker/microphone for use by individuals within a squad to coordinate their movement. SI will allow squad members to communicate more effectively while conducting day/night combat operations over distances without relying on hand and arm signals, particularly in Military Operations in Urban Terrain (MOUT). The SI is an inexpensive means of coordinating squad communication and facilitates dissemination of information from the squad leader. The SI consists of a receiver/transmitter, antenna, speaker/microphone, and carrying case for the load bearing equipment. The SI is the US Army Infantry Center #1 materiel solution priority.

JUSTIFICATION: Command and control through radios currently ends at the squad leader level. The SI will extend the ability of the squad leader to disseminate voice information to the members of the squad by using a small rugged, non-developmental radio. The FY99 funds will complete fielding of Force Package (FP) I and commence fielding of FP II and III (i.e., non Land Warrior, Mounted Warrior, and Air Warrior).

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SOLDIER ENHANCEMENT PROGRAM COMME/ELECTRONICS (BA5300)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware - Soldier Intercom (Individual)		ICOM America, Inc. ICOM America, Inc.	GSA Sch GSA Sch	SSCOM SSCOM	Mar 98 Oct-98	Jun-98 Oct-98	1576 7432	618 618	No No	Yes Yes	May 97 May 97
FY98											
FY99											
REMARKS: Can be procured from GSA Schedule as a Commercial Off -The-Shelf item.											

Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No.										February 1998		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
P-1 Item Nomenclature:												
COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)												
Program Elements for Code B Items:												
Code: A												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The USAF Combat Survivor Evader Locator (CSEL) communication system handheld radio includes secure digital message communications, Global Positioning System (GPS), line of sight (LOS) voice, and radio satellite and ground equipment interfaces to work with existing search and rescue systems for downed aircraft personnel. CSEL decreases the enemy's ability to detect or decipher rescue communications through the use of satellite communications. GPS allows pinpoint location of the U.S. survivor evader. Based on replacing the AN/PRC-112, there is a requirement for 18,531 CSELS, including Special Forces.

JUSTIFICATION:

The FY 99 program of 1890 units are to support Force Package 1.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)		Weapon System Type:		Date: February 1998		
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
A	Hardware									
	Ancillary Equipment					4811	763	6305	11530	1890
	System Project Management					425			1064	
	Fielding					274			878	
	TOTAL					5510			13712	6101

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware FY 98 FY 99	Boeing N. Amer., Los Angeles Boeing N. Amer., Los Angeles	SS SS	USAF USAF	Jun-98 Jun-99	Oct-99 Oct-00	763 1890	6305 6101	No No		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: Medical Communication for Combat Casualty Care (MC4) provides support to the medical force structure through the acquisition of existing and emerging digital communications equipment and information management/technology capabilities for modular hospital platforms and non-hospital units throughout the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities.

JUSTIFICATION: FY99 budget request supports requirements for the initial incremental fielding of Force Package 1 for far forward combat casualty care capability. It inserts new technologies into existing platforms and initiates implementation of Force XXI concepts through communication advancement to enhance medical treatment. Acquisition of specific equipment supporting MC4 are displayed in the attached exhibits.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Future Small Extension Node													
Medical Detachment Telemedicine to include:													
Dolch Computer											1500	1	1500
Laptop PC													
Teledentistry PC													
Teledentistry Camera Set													
Digital Camera													
PIC TEL VTC													
Overhead Viewer													
V-SAT Terminal													
PIC Reader/Writer													
XRAY Scanner/Digitizer													
TMED Scope Set													
Digital Cardiac Monitor													
ISTAT													
Color Printer													
Pacific Image Document Scanner													
Cords/Converters													
HMMWV													
1/4 Ton Trailer													
GPS													
Cammo Nets													
Tactical Commo/SINGARS													
Digitized Combat Support Hospitals to include:													
Computers Desktop/Notebook													
Wireless LAN and Equipment													
Pagers													
Hand Held Radios													
VTC													
Additional Tactical Comm/SINGARS													
Software													
TMIP Package													
											2900	2	1450

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)		Weapon System Type:		Date: February 1998		
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Digitized Command and Control or Battalion Sized Units to include: Computers Desktop/Notebook Wireless LAN and Equipment Pagers Hand Held Radios VTC Software TMIP Package TOTAL	A							3540	8	443

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: MEDICAL COMM FOR OBT CASUALTY CARE (MC4) (MA8046)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Future Small Extension Node FY 99	TBS	TBS	TBS	Dec-98	Mar-99	1	1500	YES		
Medical Detachment Telemedicine FY 99	TBS	TBS	TBS	Dec-98	Mar-99	1	1500	YES		
Digitized Combat Support Hospitals FY 99	TBS	TBS	TBS	Dec-98	Mar-99	2	1450	YES		
Digitized Command and Control or Battalion Sized Units FY 99	TBS	TBS	TBS	Dec-98	Mar-99	8	443	YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
P-1 Item Nomenclature:												
CI AUTOMATION ARCHITECTURE (BK5284)												
Program Elements for Code B Items:												
Code:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The program provides the Army with the capabilities of ADP support to the Deployed Counterintelligence assets for immediate intelligence information in support of the Land Component Commander.

JUSTIFICATION: Funding is required to support the development and recapitalization of the Defense Counterintelligence Integrated Information System (DCIIS) funds will procure DODIIS-compliant Counterintelligence and Human Intelligence workstations using migration platforms such as the Migration Defense Intelligence Threat Data System. Funds will support 21 large sites (MACOMs), 52 medium sites (Installations and Force Projection Brigades), and 253 small sites (detachments in support EAC and ECB organizations).

Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:										Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998	
P-1 Item Nomenclature:										TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)	
Program Elements for Code B Items:										Other Related Program Elements:	
Code:										A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	14.9			4.6	10.3	6.5	1.7	48.6	51.6		138.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	14.9			4.6	10.3	6.5	1.7	48.6	51.6		138.2
Initial Spares											
Total Proc Cost	14.9			4.6	10.3	6.5	1.7	48.6	51.6		138.2
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION:

Army Key Management System (AKMS) is the Army's system to integrate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribution and Signal Operation Instructions (SOI) management into a single automated system. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. AKMS capabilities will also increase operational flexibility and reduce force response time. It provides communications and network planning with key management on a single platform. AKMS is part of the management/support infrastructure for the Warfighter Information Network - Terrestrial (WIN-T) program, which provides critical functions for the Army's digital systems and Force XXI digitization effort.

JUSTIFICATION:

FY 99 funds will procure Data Transfer Devices (DTD's), continue the upgrade to the CHS workstations, and provide for the associated government and contractor engineering support and fielding. The DTD which hosts two versions of software, the Automated Net Control Device (ANCD) and the Key Distribution Device (KDD), will be fielded with the SINGGARS radio and to other non-SINGGARS users. The FY 99 funds will help meet the Basis Of Issue Plan (BOIP) requirements to field DTDs to Reserve Component Units.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)				Weapon System Type:		Date: February 1998	
ID	CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
			TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each				
		1. Data Transfer Device									4003	4003		1
		2. Gov't Engineering						715			710			
		3. Contractor Engineering						850			875			
		4. Documentation						250			200			
		5. Fielding						915			933			
		6. CHS Upgrade Workstation						1352	104		3594	276	13	13
		7. CHS Transit Case						494	215				2	
		TOTAL						4576			10315			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail: Now?	Date Revisn Avail	RFP Issue Date
1. Data Transfer Device										
FY 99	TBS	FP/OPT	NSA	Dec-98	Jul-00	4003	1	YES		
2. CHS Upgrade Workstation *										
FY 98	GTE, Taunton MA	FP/OPT	CECOM	Feb-98	Feb-99	104	13	YES		
FY 99	GTE, Taunton MA	FP/OPT	CECOM	Feb-99	Feb-00	276	13	YES		
REMARKS: Funding for FY98 contract option of CHS Transit Case includes Mass Storage Expansion Units (MSEU) Operational Transit Cases and mounting assembly not available/negotiated during FY97 CHS Upgrade (Workstation) buy. These will be delivered in Feb 99 with the CHS Upgrade Workstations ordered in Feb 98. * Commercial off-the-shelf equipment procured on the CHS-2 contract Due to a significant increase in BOJP requirements the LCMS Phase IV update has been deferred to FY00 in order to buy DTDs in FY99.										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-I Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Initial Spares												
Total Proc Cost	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funds the Army's Information System Security (INFOSEC) Program (ISSP). Provides communication security, cryptosecurity, transmission security, emission security, and computer security equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive, national security, and related sensitive information. Prevents exploitation through intercept, unauthorized electronic access, or related technical intelligence threats. Ensures authenticity, integrity, protection and availability of information transmitted by information systems.

JUSTIFICATION: FY 99 funds buy:

Tactical-Secure Terminal Equipment (T-SITE) to provide INFOSEC transparent to the soldier and solutions for TOP SECRET/Special Intelligence subscribers to echelons above and below corps communication systems. T-SITE is needed now to resolve problems of secure interface of strategic, tactical, and commercial communication systems as identified by the Joint Staff (J6) in the Multiservice Communications Electronics Board (MCEB) in August 1993/March 1996. AIRTERM KY-100 to protect tactical communications for attack helicopters and fixed wing aircraft. Firewalls, Taclane KG-175 Guards, and High Assurance Guard to secure Army's portion of the Defense Information Infrastructure. Army Key Management System, Tier 1, Secure Trusted Local Area Network for managing Army's automated Electronic Key, Communication Security (COMSEC) and INFOSEC material. New equipment training, first destination transportation, and consumable parts for total package fieldings.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)				Weapon System Type:		Date: February 1998)	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00
1.	A	KOK-22 Key Processor	2787	277	101	1581	85	186						
2.	A	KOK-22 Transit Case				414	860	5						
3.	A	KOK-22 Environmental Case				250	44	57						
4.	A	Local COMSEC Management Software	182	454	4									
5.	A	Army Key Management Sys Workstation	20	2	100	745	160	47						
6.	A	Tactical Secure Terminal Equipment				4286	1176	36	3994	1072	37	7450	2000	37
7.	A	Tactical Secure Terminal Equipment				4593	1233	37						
8.	A	Lightweight Portable Power Supply												
9.	A	FORTEZZA Plus	4275	1644	26									
10.	A	Firewalls				1124	3746	3						
11.	A	High Assurance Guard							2826	98	288	14000	280	500
12.	A	Taclane KG-175										360	6	600
13.	A	KGR-68	70	11	64							2300	270	85
14.	A	AIRTERM KY-100							3186	331	96			
15.	A	AIRTERM KY-100 Mods	2188			370								
16.	A	Data Transfer Device Mod				2200								
17.	A	Boundary Security Software							374			304		
18.	A	Army Key Management System Tier 1				2424			2205			3500		
19.	A	Command and Control Protection				1650								
20.	A	Fielding	1120			152			818			1800		
TOTAL			10642			19789			13403			29714		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)						
WBS Cost Elements: Fiscal Years			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$00	Specs Avail Now?	Date Revis Avail	RFP Issue Date
1. KOK-22 Key Processor FY 96 FY 97			Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ	Option MIPR	NSA, Ft Meade, MD NSA, Ft Meade, MD	Feb-96 Dec-96	Feb-97 Jan-97	277 85	101 186	Yes Yes	No No	
2. KOK-22 Transit Case FY 97			NSA, Ft Meade, MD	MIPR	NSA, Ft Meade, MD	May-97	Sep-97	860	5	Yes	No	
3. KOK-22 Environmental Case FY 97			Tobyhanna Army Depot, PA	MIPR	NSA, Ft Meade, MD	Feb-97	Sep-97	44	57	Yes	No	
4. Local COMSEC Management Software FY 96			Lockheed Martin, Camden, NJ	Option	NSA, Ft Meade, MD	Feb-96	Feb-97	454	4	Yes	No	
5. Army Key Management Sys Workstation FY 96 FY 97			TELOS, Washington, DC TELOS, Washington, DC	IDIQ IDIQ	CECOM, Ft Monmouth, NJ CECOM, Ft Monmouth, NJ	Jul-96 Feb-97	Sep-96 Jul-97	2 160	100 47	Yes Yes	No No	
6. Tactical Secure Terminal Equipment FY 97 FY 98 FY 99			Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ	IDIQ IDIQ IDIQ	NSA, Ft Meade, MD NSA, Ft Meade, MD NSA, Ft Meade, MD	Dec-96 Mar-98 Oct-98	Jan-98 Jul-98 Jul-99	1176 1072 2000	36 37 37	Yes Yes Yes	No No No	
7. Tactical Secure Terminal Equipment FY 97			Lockheed Martin, Camden, NJ	IDIQ	NSA, Ft Meade, MD	Jul-97	Apr-98	1233	37	Yes	No	
REMARKS: National Security Agency (NSA) U.S. Army Communications Electronics Command (CECOM) Military Departmental Purchase Request (MIPR) Indefinite Delivery Indefinite Quantity (IDIQ)												

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)			
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$00	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
8. Lightweight Portable Power System FY 96		Lucent, Raleigh-Durham, NC	IDIQ	NSA, Ft Meade, MD	Jan-96	Feb-98	1644	26	Yes	No	
9. FORTEZZA Plus FY 97		Mykotronx, Torrance, CA	Option	NSA, Ft Meade, MD	Sep-97	Mar-98	3746	3	Yes	No	
10. Firewalls FY 98		ESR, Richmond, VA	BPA	CECOM, Ft Huachuca, AZ	Dec-97	Jan-98	98	288	Yes	No	
FY 99		TBS	BPA	CECOM, Ft Huachuca, AZ	Oct-98	Jan-99	280	500	Yes	No	
11. High Assurance Guards FY 99		TBS	IDIQ	NSA, Ft Meade, MD	Oct-98	Jan-99	6	600	Yes	No	
12. Taclane KG-175 FY 99		TBS	IDIQ	NSA, Ft Meade, MD	Oct-98	Jan-99	270	85	Yes	No	
13. KGR-68 FY 96		NSA, Ft Meade, MD	MIPR	NSA, Ft Meade, MD	May-96	Jun-96	11	64	Yes	No	
14. AIRTERM KY-100 FY-98		ITT, Ft Wayne, IN	Option	NSA, Ft Meade, MD	Jun-98	May-99	331	96	Yes	No	
REMARKS:		National Security Agency (NSA) General Services Administration (GSA) Military Interdepartmental Purchase Request (MIPR) Indefinite Delivery Indefinite Quantity (IDIQ) U.S. Army Communications Electronics Command (CECOM) Blanket Purchase Agreement (BPA) To Be Selected (TBS)									

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FY 98 / 99 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature:		INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)		Date: February 1998																																																								
COST ELEMENTS															Fiscal Year 98		Fiscal Year 99		Fiscal Year 99																																																								
M	F	R	FY	S	QTY	PROC	ACCEP.	BAL	Calendar Year 98		Calendar Year 99		Calendar Year 99		Calendar Year 99		Calendar Year 99																																																										
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ADMIN LEAD TIME		MFR		TOTAL		REMARKS																																																																					
Prior 1 Oct.	After 1 Oct.	Alter 1 Oct.	Alter 1 Oct.	After 1 Oct.	After 1 Oct.	There are no plans to reorder MFR # 7 and #9.	All contracts are Multiservice use so deliveries vary.																																																																				
2	3	13	9	15	9																																																																						
3	25	25	28	28	28																																																																						
12	4	4	16	16	16																																																																						
11	6	6	17	17	17																																																																						
3	4	4	7	7	7																																																																						

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											TERRESTRIAL TRANSMISSION (BU1900)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	198.2	0.9	14.6	6.7	20.2	2.1	2.1	2.1	2.1	0.0	251.0
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	198.2	0.9	14.6	6.7	20.2	2.1	2.1	2.1	2.1	0.0	251.0
Initial Spares											
Total Proc Cost	198.2	0.9	14.6	6.7	20.2	2.1	2.1	2.1	2.1	0.0	251.0
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: This budget modernizes and integrates the digital communication operations within the Pacific and European Theaters. The architecture of the Defense Information Infrastructure (DII) will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program will utilize emerging technological developments to capitalize on digital information systems throughout the worldwide DII. The theater Combatant Commanders require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been approved in the Extended Korea Improvement Program (EKIP) and the Korea Communications Infrastructure Upgrade (KCIU) by the Joint Chiefs of Staff (JCS). The EKIP and KCIU are JCS directed programs to strategically improve the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems. These programs also support command and control communications networks serving the Commander-in-Chief, US Forces and United Nations Command, Korea, and Commander-in-Chief, US Forces, Japan. The modernization of communications systems is essential for wartime capabilities in the Pacific staging areas of Korea and Japan.

Exhibit P-40C Budget Item Justification Sheet				Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				TERRESTRIAL TRANSMISSION (BU1900)	
Program Elements for Code B Items		Code	Other Related Program Elements		
		A			
<p>The Digital European Backbone (DEB) Programs realign the DII in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. Alignments convert manpower intensive stations to unattended operations. This program utilizes assets that are recovered from sites closed in prior years to replace operating systems which are no longer logistically supportable.</p> <p>Systems/programs supported by this program include the European Telephone System, Defense Switched Network and Defense Data Network. EUCOM's communications requirements as put forth to DA and DOD have necessitated the redesign of the Defense Information Systems Network (DISN) - Europe architecture.</p> <p>JUSTIFICATION: The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity and reconstitution capabilities of communications in Korea. FY 99 funding enhances the readiness of U.S. Forces in Korea and provides the warfighters with a more robust, survivable, capable command, control, communications and computer (C4) infrastructure for Pacific area deployments. Funding provides for the completion of the Digital Microwave Upgrade as identified in the EKIP Program.</p> <p>The goal for the Defense Information Systems Network (DISN) - Europe is an integrated, survivable network that provides voice, data, messaging, video and transmission services to the warfighter through the application of emerging technology such as ATM and SONET. FY99 funds will be utilized for initial engineering/survey efforts to accomplish the required upgrades as defined by EUCOM.</p>					

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU2000)			Version 2 Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
EUROPE:														
	A	Engineer, Furnish, Install, & Test (EFI&T) Staging Support	75	1	75	50	1	50	50	1	50	50	1	50
	A	Reutilization of Assets							35	1	35	35	1	35
	A	Army Maintenance Supply Facility (AMSF) Spt	15	1	15	15	1	15	15	1	15	15	1	15
	A	El&T Mannheim - Donnersberg Link	98	VAR	VAR									
		HP-1000/Joint European Monitoring System (JEMS) replacement program.	18	1	18									
	A	El&T Hanau - Feldberg				341	VAR	VAR	812	VAR	VAR			
	A	Valhingen Matrix Switch				498	1	498						
	A	Site Prep for DCS Facility - Hanau DII (5th Signal Command)	951	1	951									
	A	Desert Focus Initiatives	4723	VAR	VAR							778	VAR	VAR
		Initial DISN Upgrade										182	VAR	VAR
		Project Management												
TOTAL			5880			904			912			1060		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU2000)			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
Engineer, Furnish, Install, & Test /Staging Spt									
FY 96				AMC EUROPE	CECOM	Dec-95	Jan-96	1	75
FY 97				AMC EUROPE	CECOM	Dec-96	Jan-97	1	50
FY 98				AMC EUROPE	CECOM	Dec-97	Jan-98	1	50
FY 99				AMC EUROPE	CECOM	Dec-98	Jan-99	1	50
Reutilization of Assets									
FY 98				TOBYHANNA ARMY DEPOT, PA	CECOM	Jan-98	May-98	1	35
FY 99				TOBYHANNA ARMY DEPOT, PA	CECOM	Jan-99	May-99	1	35
Army Maintenance Supply Facility (AMSF) Spt									
FY 96				5TH SIGNAL CMD	CECOM	Mar-96	Mar-96	1	15
FY 97				5TH SIGNAL CMD	CECOM	Mar-97	Mar-97	1	15
FY 98				5TH SIGNAL CMD	CECOM	Mar-98	Mar-98	1	15
FY 99				5TH SIGNAL CMD	CECOM	Mar-99	Mar-99	1	15
El&T Mannheim - Donnersberg Link									
FY 96				VAR*	VAR*	Feb 96	Mar-96	VAR	VAR
HP-1000/Joint European Monitoring System (JEMS) replacement program.									
FY 96				TOBYHANNA ARMY DEPOT, PA	CECOM	Jun-96	Aug-96	1	18
El&T Hanau - Feldberg									
FY 97				VAR*	VAR*	Dec-96	Jan-97	VAR	VAR
FY 98				VAR*	VAR*	Nov-97	Dec-97	VAR	VAR
REMARKS: WR - Work Request * Material/services provided by Tobyhanna Army Depot, 504th SignalBn, Info Sys Engrg Cmd, Defense Distribution Region-West, European District Engineers, and 5th Signal Command. CECOM - Communications-Electronics Command									

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:					Version 2		
Equipment		Contract Method and Type		Location of PCO		Award Date		TERRESTRIAL TRANSMISSION (BU2000)		RFP Issue Date	
Fiscal Years		Contractor and Location						QTY Each		Date Revsn Avail	
								Unit Cost \$000		Specs Avail Now?	
Vaihingen Matrix Switch FY 97		GENERAL SIGNAL, Mt Laurel, NJ		CECOM		Apr-97		1		498	
Site Prep for DCS Facility - Hanau DII (5th Sig Cmd FY96		STAATLICHES HOCHBAUMT		WIESBADEN DOC		Feb-96		1		951	
Initial DISN Upgrade FY 99		TBS		CECOM		Nov-98		VAR		VAR	
DESERT FOCUS INITIATIVES Microwave Systems FY96		COE, WINCHESTER, VA		USASC		Sep-96		1		506	
Switching Systems FY96		GTE GOV'T SYS CORP NEEDHAM, MA		USASC		Sep-96		VAR		VAR	
Technical Communications Facility FY96		VAR**		PM TS		VAR*		VAR		VAR	
REMARKS: COE - Corps of Engineers USASC - US Army Systems Command PM TS - Project Manager Transmission Systems VAR** - Pulse Engineering, Beltsville, MD; Black Box, Lawrence, PA; Trompeter, West Lake Village, CA; ADC Telecom Ind, Portland, OR; Primary Telecom Ind, Falls Church, VA; Anixter, Tempe, AZ; Time Electronics, Tempe, AZ; Charles Industry, Rolling Meadows, IL; Information Electronics, St. Simons Island, GA; Telos Systems Integration, Ashburn, VA; Lockheed Martin Federal Systems, Oswego, NY											

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				Version 2		Weapon System Type:		Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99								
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		PACIFIC: Extended Korean Improvement Program [EKIP]* Defense Info Infrastructure Contingency Satellite (DSAT)	49	1	49												
	A	KT / DACOM Interconnect	670	1	670												
	A	20 ft. Antennas	1575	9	175												
	A	Digital Patch & Access Sys (DPAS) Upgrade	220	1	220												
	A	Digital Microwave Phase I - Engineering	160	1	160												
	A	Digital Microwave Phase I - EFI&T	2064	1	2064	10	1	10									
	A	Technical Control Analysis Element	2000	1	2000	110	1	110									
	A	Tactical Strategic Interface	331	VAR	VAR	17	1	17									
	A	Digital Microwave Phase II - EFI&T	340	1	340	2497	1	2497	5835	1	5835	440	1	440			440
	A	Network and Systems Management	1360	VAR	VAR	390	VAR	VAR									
	A	Emergency Action Facility (EAF) Upgrade				2080	VAR	VAR	3109	1	3109						
	A	CC Seoul/Tango Audio Visual Upgrade				660	1	660									
	A	Korea Comm Infrastructure Upgrade							8700	1	8700						
	A	Battlefield Visualization System							1681	1	1681						
	A	SATCOM Data Controller				21	2	11									
		Engineering													117	VAR	VAR
		Project Management													336	VAR	VAR
		TOTAL	8769			5785			19325			893					

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
PACIFIC: Extended Korean Improvement Program [EKIP]*									
Defense Info Infrastructure Contingency Satellite (DSAT) FY 96				EIGHTH US ARMY	PM DCATS	Apr-96	May-96	1	49
KT / DACOM Interconnect FY 96				EIGHTH US ARMY	PM DCATS	Apr-96	Jun-96	1	670
20 ft. Antennas FY 96				HARRIS CORP, MELBOURNE, FL	CECOM	VAR	Nov-96	9	175
Digital Patch & Access Sys (DPAS) Upgrade FY 96				AT&T NETWORK SYSTEMS	C.FP	Mar-96	May-96	1	220
Digital Microwave Phase I - Engineering FY 96				INFO SYS ENGRG CMD	MIPR	Jan-96	Mar-96	1	160
Digital Microwave Phase I - EFi&T FY 96 FY 97				CRITICOM, LANHAM, MD CRITICOM, LANHAM, MD	C/FP C/FP	Aug-96 Aug-97	Nov-96 Aug-97	1 1	2064 10
Technical Control Analysis Element FY 96 FY 97				GENERAL SERVICES ADMIN GENERAL SERVICES ADMIN	C/FP C/FP	Aug-96 Nov-96	Nov-96 Jan-97	1 1	2000 110
REMARKS: PM DCATS - Program Manager, Defense Communications and Army Transmission Systems AT&T Network Systems, Fairfax, VA									

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)			
WBS Cost Elements: Fiscal Years			Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?
Tactical Strategic Interface FY 96 FY 97			MIPR MIPR	PM DCATS PM DCATS	Apr-96 Apr-97	Jun-96 Apr-97	VAR 1	VAR 17	
Digital Microwave Phase II - E&I&T FY 96 FY 97 FY 98 FY 99			C/FP C/FP C/FP CFP	NAVY CECOM CECOM CECOM	Aug-96 Aug-97 Nov-97 Nov-98	Nov-96 Nov-97 Dec-97 Dec-98	1 1 1 1	340 2497 5835 440	
Network and Systems Management FY 96 FY 97			VAR VAR	VAR* VAR*	Jun-96 Nov-96	Aug-96 Jan-97	VAR VAR	VAR VAR	
Emergency Action Facility (EAF) Upgrade FY 97 FY 98			VAR MIPR	VAR** CECOM	Feb-97 Dec-97	Apr-97 Mar-98	VAR 1	VAR 3109	
CC Seoul/Tango Audio Visual Upgrade FY 97			C/FP	CECOM	Jan-97	Mar-97	1	660	
Korea Comm Infrastructure Upgrade FY 98			C/FP	CECOM	Mar-98	Jul-98	1	8700	
Battlefield Visualization System FY 98			C/FP	CECOM	Feb-98	May-98	1	1681	
REMARKS: *Various Navy and Air Force and DDRW contracts. ** Various NASA, PM STCCS and Eighth US Army contracts.									

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				Version 2			
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SATCOM Data Controller FY 97			VIASAT, INC, CARLSBAD, CA		C/FP	CECOM	Aug-97	Sep-97	2	11			
REMARKS:													

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												BASE SUPPORT COMMUNICATIONS (BU4160)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Initial Spares												
Total Proc Cost	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line funds Armywide requirements for base support radio systems, and test, measurement and diagnostic equipment (TMDE) for US Army Signal Command (USASC). Base support radios are used by installation military police, fire departments, medical personnel and other emergency-response activities to coordinate critical response to time sensitive emergencies and for support during mobilization, deployment and split-based operations. Base support radio systems will permit users to share frequencies, thus conserving scarce radio spectra and will provide secure voice/data transmission and access to local telephone systems from portable hand-held radios. The Federal Communications Commission (FCC) and National Telecommunications Information Administration (NTIA) have drastically reduced the available frequencies throughout CONUS. In Korea, the Ministry of Communications (MOC) will implement Phase 2 changes to operational bandwidth and channel separation criteria for Very High Frequency (VHF), Commercial Land Mobile Radios (CLMR) by FY 04, at which time existing radios will be obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security and other base forces during mobilization, deployment and split-base operations would also be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, non-supportable TMDE and interim mission support for command, control, communications and computers worldwide. The USASC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, non-supportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems.

JUSTIFICATION: FY99 funds upgrade or replace base support radio systems that US Forces Command (FORSCOM) and Eighth US Army (EUSA) have identified as critical requirements. Based on the USASC 5-Year TMDE Acquisition Plan, FY 99 funds will purchase replacement TMDE, which include such items as transmission test sets, plotters/recorders, spectrum analyzers, signal sources and interim support of specialized test equipment which is authorized by approved documents. Interim support includes procurement of local area network/wide area network (LAN/WAN) diagnostic equipment and fiber optic test equipment. These funds will also provide replenishment and for rebuild of high-dollar, unique test equipment that has been deemed irreparable through standard Army repair systems. All procurements are designed to satisfy increases in authorization levels due to expanded mission requirements based upon critical need and the five year TMDE Acquisition Plan.

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)				
Contractor and Location					Weapon System Type:				
Contract Method and Type					Location of PCO				
Award Date					Date of First Delivery				
QTY Each					Unit Cost \$000				
Specs Avail Now?					Date Revis Avail				
RFP Issue Date									
TMDE Replacement/Quality Assurance TMDE FY 96 FY 97 FY 98 FY 99					VAR * VAR * VAR * VAR *				
Non-Tactical Trunked Radio Sys [FORSCOM] FY 96 FY 97 FY 98 FY 99					CECOM CECOM CECOM CECOM				
Secure Digital Non-Tactical Radio Sys[MDW] FY 96					C/FP *OPTION *OPTION *OPTION				
Commercial Land Mobile Radio Sys [EUSA] FY 96 FY 97 FY 98 FY 99					MOTOROLA MOTOROLA MOTOROLA MOTOROLA				
Public Safety Communications System [AMC] FY 96					MOTOROLA MOTOROLA MOTOROLA MOTOROLA				
REMARKS:					VAR * Denotes TMDE effort which provides replacement test equipment to support the 9th Army Signal Command Mission. State-of-the-art test equipment is contracted from a variety of Test, Measurement, & Diagnostic Equipment (TMDE) manufacturers for various sites. *Option-FORSCOM costs to purchase 3rd year lease or lease to purchase contract. Motorola, Hanover, MD USACCK - US Army Contracting Center, Korea TACOM - Tank Automotive and Armaments Command				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Non-Tactical Radio Support (Pentagon) FY 96	Motorola	C/FP	DSSW	Sep-97	Jan-98	VAR	VAR	YES	NO	
Secure Communications Capabilities Upgrade (EUCOM) FY 98	TBS	C/FP	DAO-CECOM	Aug-98	Oct-98	VAR	VAR	NO	NO	
REMARKS: VAR - Unit costs and quantities vary by configuration. Motorola - Hanover, MD DSSW - Defense Supply and Services, Washington, Arlington, VA										

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									ARMY DISN ROUTER (BU0300)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
Program Elements for Code B Items:		Other Related Program Elements:										
		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9
Initial Spares												
Total Proc Cost	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Army Defense Information System Network (DISN) Router Program (ADRP) addresses Army requirements for DISN connections. The DISN includes both the Unclassified IP Router Network (NIPRNET) and the Secret IP Router Network (SIPRNET). The ADRP includes the acquisition of routers, access servers, modems, and associated networking and management devices necessary to connect Army host computers, terminals and Local Area Networks (LANs) to the DISN. Program acquisition also includes installation, installation Bill of Material (IBOM), training and maintenance. The routers and access servers are tailored to data requirements at each Army location and are expandable to meet changes in data requirements. The routers are also upgradable to future Army, DOD and industry standards. Reducing the number of connections required to support Army DISN requirements avoids multiple router connection charges with each associated DISN connection. The ADRP is an integral part of the Power Projection Command, Control, Communications, and Computer Infrastructure (P2C4I) initiative. The overall objectives of P2C4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace information systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

JUSTIFICATION: FY 99 funds add new capability in the DDN usage reduction effort, provide more capacity for data communication users and reduce the time to acquire services. FY 99 funds will procure 22 Routers and 23 Access Servers. FY 99 funds, also provide for the program management and engineering support to the ADRP.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Routers	A		3684	*40	VAR	1139	*12	VAR	1855	*20	VAR	2287	*22	VAR
Access Servers	A		333	*26	VAR	935	*18	VAR	1048	*21	VAR	1327	*23	VAR
Modems	A		694	*912	VAR									
Army Regional Transition Network (ARTNET)	A		900	1	900									
TOTAL			5611			2074			2903			3614		

* Unit costs are site specific.

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)							
WBS Cost Elements:				Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years														
Routers **				AIS		C/FP	WEST POINT DOC***	Mar-96	VAR*	40	VAR			
FY 96				MICROSTAR/OAO		C/FP	CECOM	Jan-97	VAR*	12	VAR			
FY 97				MICROSTAR/OAO		C/FP	CECOM	Mar-98	VAR*	20	VAR	YES		
FY 98				MICROSTAR/OAO		C/FP	CECOM	Mar-99	VAR*	22	VAR	YES	NO	
FY 99														
Access Servers **				AIS		C/FP	WEST POINT DOC***	Mar-96	VAR*	26	VAR			
FY 96				MICROSTAR/OAO		C/FP	CECOM	Feb-97	VAR*	18	VAR			
FY 97				MICROSTAR/OAO		C/FP	CECOM	Mar-98	VAR*	21	VAR	YES		
FY 98				MICROSTAR/OAO		C/FP	CECOM	Mar-99	VAR*	23	VAR	YES	NO	
FY 99														
Modems **				AIS		C/FP	WEST POINT DOC***	Mar-96	VAR*	912	VAR			
FY 96				Electronic Data Sys Corp		C/FP	CECOM	Jun-96	VAR*	1	900			
Army Regional Transition Network (ARTNET)														
FY 96														
REMARKS: AIS = Applied Info Service Inc., Somerset, NJ MICROSTAR, Jessup, MD EDS = Electronic Data Systems Corp, Herndon, VA OAO, Greenbelt, MD * Multiple awards and delivery orders/dates throughout the FY. ** Site specific. *** Director of Contracts (DOC)														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ELECTROMAG COMP PROG (EMCP) (BD3100)	
Program Elements for Code B Items:												Other Related Program Elements:	
Proc Qty	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Gross Cost	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Initial Spares													
Total Proc Cost	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The ELECTROMAGNETIC COMPATIBILITY PROGRAM (EMCP) ensures readiness and effectiveness of command control communications systems through the testing of tactical and strategic systems for electromagnetic compatibility (EMC) with other civil or defense communications-electronics (C-E) systems operating within their environment. This includes the need to conduct EMC surveys at proposed and existing C-E sites intended for upgrade or planning for frequency resources. This is done to avoid expensive reworking or retrofitting. Propagation engineering is required in designing new networks and C-E equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line of sight; (2) high frequency skywave and groundwave; (3) meteor burst; (4) tropospheric scatter communications systems; (5) antenna performance; and (6) spectrum management.

JUSTIFICATION: The EMCP requires the procurement of the following replacement and enhancement equipment to sustain the program.

A. EMC MEASUREMENT EQUIPMENT: Used to conduct EMC surveys to characterize the electromagnetic environment. Surveys are used to measure spectrum occupancy, detect interference, and eliminate electromagnetic hazards.

B. SPECTRUM ANALYZERS: Display and record the frequency domain and transmission characteristics of the radio frequency signals acquired.

C. DIRECTOR OF INFORMATION MANAGEMENT (DOIM) ARMY INTERFERENCE RESOLUTION PROGRAM (AIRP) UPGRADE: These systems include hand-held direction finding equipment and computers to run frequency management software (AFSMS) and other electromagnetic interference (EMI) software to be supplied to Army DOIMs worldwide to resolve radio frequency interference (RFI) problems. These systems will reduce the utilization of limited resources by correcting RFI problems at the DOIM level.

Exhibit P-40C Budget Item Justification Sheet		Date	February 1998
Appropriation / Budget Activity/Serial No.	P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	ELECTROMAG COMP PROG (EMCP) (BD3100)		
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>JUSTIFICATION (Continued):</p> <p>D. MICROWAVE PROPAGATION PREDICTION SYSTEM: Used to analyse the propagation characteristics and predict the reliability of a microwave communication system, including high data rate digital systems.</p> <p>E. ENGINEERING WORKSTATIONS AND PERIPHERALS: Buys computers and related equipment to perform propagation engineering analysis functions.</p> <p>F. SPECTRUM MONITORING EQUIPMENT: Buys a system that provides the capability to monitor frequency usage over a wide spectrum in real time.</p> <p>G. MEASUREMENT CONTROLLERS: Automates the performance at tests/measurements.</p>			

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ELECTROMAG COMP PROG (EMCP) (BD3100)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
EMC MEASUREMENT EQUIPMENT													
SPECTRUM ANALYZERS													
DOIM AIRP UPGRADE													
MICROWAVE PROPAGATION PREDICTION													
ENGINEERING WORKSTATIONS AND PERIPHERALS													
SPECTRUM MONITORING SYSTEMS													
MEASUREMENT CONTROLLERS													
TOTAL													
		212		VAR	451		VAR	455		VAR	452		VAR
			162	VAR*	362	VAR*	VAR	131	VAR*	VAR	206	VAR*	VAR
								50	1	50	160	VAR*	VAR
					72	3	24	160	VAR*	VAR			
								34	2	17	80	VAR*	VAR
		50	VAR*	VAR	17	VAR*	VAR	5	8	1	6	4	2
								50	1	50			
								25	5	5			

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Weapon System Type:		Date: February 1998			
Equipment					P-1 Line Item Nomenclature: ELECTROMAG COMP PROG (EMCP) (BD3100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
EMC MEASUREMENT EQUIPMENT										
- FY 96	VAR**	C/FP	ISC Contracting	VAR	VAR	VAR	VAR*			
- FY 97	VAR**	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 98	TBS	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 99	TBS	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
SPECTRUM ANALYZERS										
- FY 98	TBS	C/FP	CECOM Contracting	Feb-98	Apr-98	1	50	Yes		
- FY 99	TBS	C/FP	CECOM Contracting	Feb-99	Apr-99	2	80	No		
DOIM AIRP UPGRADE										
- FY 97	Rhode & Schwarz	C/FP	CECOM Contracting	Feb-97	Jul-97	3	24			
- FY 98	Rhode & Schwarz	C/FP	CECOM Contracting	Feb-98	Aug-98	3	12			
MICROWAVE PROPAGATION PREDICTION										
- FY 98	TBS	C/FP	CECOM Contracting	Apr-98	Aug-98	2	34	Yes		
- FY 99	TBS	C/FP	CECOM Contracting	Feb-99	Jun-99	VAR	VAR*	No		
ENGINEERING WORKSTATIONS & PERIPHERALS										
- FY 96	GTSI	C/FP	ISC Contracting	Jan-96	Mar-96	10	5			
- FY 97	GTSI	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 98	TBS	C/FP	CECOM Contracting	Apr-98	Aug-98	2	4	Yes		
- FY 99	TBS	C/FP	CECOM Contracting	Apr-99	Aug-99	1	6	Yes		
SPECTRUM MONITORING EQUIPMENT - FY 98	Hewlett-Packard	C/FP	CECOM Contracting	Oct-97	Nov-97	1	50			
MEASUREMENT CONTROLLERS - FY 98	Dell Computer Corp.	C/FP	CECOM Contracting	Jan-98	Mar-98	5	25			
REMARKS: VAR* - Multiple contracts awarded throughout the year VAR** - TECOM, Inc., Chatsworth, CA; Cornell Labs, Canoga Park, CA; Hewlett-Packard, Palo Alto, CA Rhode & Schwarz, Inc., Manassas, VA 22110 GTSI, Chantilly, VA Hewlett-Packard, Palo Alto, CA Dell Computer Corp., Washington, DC										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												WW TECH CON IMP PROG (WWTCIP) (BU3610)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1	
Initial Spares													
Total Proc Cost	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion, and modernization of the Worldwide Defense Information Systems Network (DISN) technical control facilities in order to effect the integration and efficient operation of DCS digital transmission subsystems, and to reduce operating costs. This program provides DC power, timing and synchron, line conditioning equipment, automatic technical control, digital patch and access system (DPAS), VF tactical interface, Defense Communication Systems TRI-TAC interface, and appropriate test equipment and associated hardware. WWTCIP supports worldwide communications transmission media and switching upgrades such as the Digital European Backbone (DEB), Korean Improvement Program, Japan Reconfiguration and Digitization, and Defense Satellite Communications. Program also funds the automation of Technical Control Facilities, as part of the Joint Chiefs of Staff (JCS) directed Korean C4I enhancements, under the Extended Korean Improvement Program (EKIP).

JUSTIFICATION: FY 99 funds will be used to install the matrix switch at Landstuhl, Germany. Although the Timing Systems have been upgraded with Global Positioning System receivers, the Clock Distribution Systems are antiquated and need to be replaced with logistically supportable and modern timing distribution systems. FY99 funds will facilitate upgrades at approximately 114 worldwide locations.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Automation/Integration of Technical Controls (AITC) Equipment	4215	VAR	VAR	752	Var	VAR	200	VAR	VAR			
A		Bill of Materials	1280	VAR	VAR									
A		Yongsan Site Prep	164	1	164									
A		Engineering Survey - Ft. Bragg	77	1	77									
A		DCO Renovation - Ft. Bragg	586	1	586									
A		Tech Control Facility (TCF) Equip - Ft. Bragg	181	1	181									
A		AITC Engineering/Installation/Test	36	VAR	VAR	50	VAR	VAR						
A		Tech Control Facility - Install - Ft Bragg				373	VAR	VAR	221	1	221			
A		Tech Control Facility -Install - Ft Buckner							345	1	345			
A		Tech Control Facility - Install - Hanau							150	1	150			
A		Landstuhl Matrix Switch Installation										344	1	344
		Timing and Synch Upgrades										1687	VAR	VAR
TOTAL			6539			1175			916			2031		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Automation/Integration of Technical Controls		General Signal, Mt Laurel, NJ General Signal, Mt Laurel, NJ General Signal, Mt Laurel, NJ		C/FP C/FP C/FP	CECOM CECOM CECOM	VAR VAR VAR	Jul-96 Jul-97 Dec-97	VAR VAR VAR	VAR VAR VAR	YES		
Bill of Materials		Tobyhanna Army Depot, PA		WR	CECOM	VAR	Apr-96	VAR	VAR			
Yongsan Site Prep		1ST Signal Brigade		MIPR	PM DCATS	Jan-96	Jan-96	1	164			
Engineering Survey - Ft. Bragg		SAIC		C/FP	INFO SYS ENGRG CMD	May-96	May-96	1	77			
DCO Renovation - Ft. Bragg		Corps of Engineers		MIPR	PM DCATS	Jul-96	Sep-96	1	586			
Tech Control Facility (TCF) Equip - Ft. Bragg		Tobyhanna Army Depot, PA		WR	CECOM	Jul-96	Nov-96	1	181			
AITC Engineering/Installation/Test		IN-HOUSE IN HOUSE		MIPR MIPR	504TH SIGNAL BN INFO SYS ENGRG CMD	Feb-97 Nov-97	Mar-97 Nov-97	VAR VAR	VAR VAR			
Tech Control Facility -Install Ft Bragg		IN-HOUSE TBS		MIPR C/FP	504TH SIGNAL BN CECOM	Dec-97 Oct-98	Jan-98 Oct-98	1 1	373 221	YES		
REMARKS:				WR - Work Request PM DCATS - Project Manager, Defense Communications and Army Transmission Systems SAIC - Science Applications International Corp, Sierra Vista, AZ CECOM - Communications - Electronics Command								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Tech Control Facility - Install Ft Buckner FY98	TBS	C/FP	CECOM	Jun-98	Aug-98	1	345	YES		
Tech Control Facility - Install Hanau FY98	TBS	C/FP	CECOM	May-98	Jul-98	1	150	YES		
Landstuhl Matrix Switch Installation FY99	TBS	C/FP	CECOM	Jan-99	Meb 99	1	344	YES		
Timing and Synch Upgrades FY99	TBS	C/FP	CECOM	Jan-99	Mar-99	*VAR	*VAR	YES		
REMARKS: * Site Specific										

Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:				Date:		February 1998					
OTHER PROCUREMENT 1/2 / Communications and Electronics Equipment				P-1 Item Nomenclature:		INFORMATION SYSTEMS (BB8650)					
Program Elements for Code B Items:				Code:		Other Related Program Elements:					
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Total Prog
Proc Qty											
Gross Cost	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2	1222.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2	1222.3
Initial Spares											
Total Proc Cost	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2	1222.3
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: This budget line consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and Information Systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

JUSTIFICATION: The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunication infrastructure. It includes the MACOM telephone Modernization Program (MTMP), an integral part of the Power Projection Command Control Communication Computer Infrastructure (P2C4I) initiative which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The Information Systems (CONUS/Western Hemisphere) program also finances information infrastructure investments and modernization to support the National Guard portion of the Army Distance Learning Program. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insures compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs in Europe. The Information Systems - PACOM program continues the transition to the ISDN for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (BB8650)			Weapon System Type:			Date: September 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		INFORMATION SYSTEMS (CONUS/WESTERN HE	47824			37857			43174			45794		
		INFORMATION SYSTEMS (EUCOM)	6957			364			386			24921		
		INFORMATION SYSTEMS (PACOM)	1611			778			829			10622		
		INFORMATION SYSTEMS (MCA SUPPORT)	5843			9496			5804			9876		
TOTAL			62235			48495			50193			91213		

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
INFORMATION SYSTEMS (CONUSWESTERN HEM) (BB8700)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	436.2	20.6	47.8	37.9	43.2	45.8	27.4	27.9	53.3	52.8		792.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	436.2	20.6	47.8	37.9	43.2	45.8	27.4	27.9	53.3	52.8		792.9
Initial Spares												
Total Proc Cost	436.2	20.6	47.8	37.9	43.2	45.8	27.4	27.9	53.3	52.8		792.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMP) and the European Telephone Switch (ETS) upgrades. MTMP is an integral part of the Power Projection Command, Control, Communications and Computers Initiative (PPC4I). The overall objective of PPC4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems; and (2) to employ Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice. The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. Upgrading telecommunications equipment insures the most effective interface with existing public telecommunications networks and optimizes the development of evolving Department of the Army programs. MTMP is also assigned with the implementation of the Integrated Services Digital Network (ISDN) within the Army, thus supporting the most efficient utilization of bandwidth.

The ETS network replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: FY99 funds will provide upgrades for 29 each SL-100 MTMP switches with the MSL-07 versions software and new processors, making them Year 2K compliant. The replacement of the European switches is mandatory as stated by USCINCEUR in a memorandum to the Chairman of the Joint Chiefs of Staff of the Army. The requirement is to continue to provide telephone services to the warfighters in the European theater and provide connectivity to the Sustaining Base in CONUS. The existing switches will be unsupportable by Dec 2004 and repairing and maintaining these antiquated switches is not cost effective. The existing switches

Exhibit P-40C Budget Item Justification Sheet			Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB6700)		
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>do not meet mission requirements today. If replacement switches are not installed by 2004, there will be no reliable telephone service to the warfighter in garrison and there will be no access available to the worldwide Defense Information System Network (DISN) for warfighters deployed in the field.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACOM Telephone Modernization Program (MTMP): Digital Switching System			43563	* 5	VAR	7695	1	7695						
MTMP Options/Modifications	A		3107	*VAR	VAR	6484	*VAR	VAR	500	*VAR	VAR	500	*VAR	VAR
Year 2K Software/Hardware	A								12126	*VAR	VAR	35904	*VAR	VAR
EOC Upgrade - Ft Bragg (FORSCOM)	A		762	1	762									
HQ PBX System (MEPCOM)	A		392	1	392									
DISTANCE LEARNING (DCSOPS) Networks	A					14121	*VAR	VAR	18547	*VAR	VAR			
Class Rooms						5757	*VAR	VAR	7419	*VAR	VAR			
Operations						3800	*VAR	VAR	4946	*VAR	VAR			
DISN EUROPE Switch Upgrade	A											9390	*VAR	VAR
TOTAL			47824			37857			43174			45794		

*Quantity is purchased at various unit costs.

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONJUS/WESTERN IEM) (BB8700)														
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
MACOM Telephone Modernization Prog (MTMP)																					
Digital Switching System																					
FY 96		GTE		OPTION		CECOM		Jan-96		VAR *		5		VAR							
FY 97		GTE		OPT/C/FP		CECOM		Jan-97		VAR *		1		7695		YES		NO			
MTMP Options / Modifications																					
FY 96		GTE		OPTION		CECOM		Mar-96		VAR *		VAR		VAR							
FY 97		GTE / HALIFAX		OPT/C/FP		CECOM		Mar-97		VAR *		VAR		VAR							
FY 98		GTE/HALIFAX		OPT/C/FP		CECOM		Apr-98		VAR *		VAR		VAR		YES					
FY 99		GTE/HALIFAX		OPT/C/FP		CECOM		Apr-99		VAR *		VAR		VAR		YES					
YEAR 2K SOFTWARE/HARDWARE UPGRADE																					
FY 98		GTE/DSSMP		C/FP		CECOM		Oct-97		VAR*		13		VAR		YES		NO			
FY 99		GTE/DSSMP		C/FP		CECOM		Oct-98		VAR*		29		VAR		YES		NO			
EOC Upgrade - Ft. Bragg [FORSCOM]		NAWC		OPTION		FT. MCPHERSON		Mar-96		Oct-96		VAR		VAR							
FY 96																					
HQ PBX System [MEPCOM]		AMSTAR		OPTION		GSA, Chicago		Jul-96		Dec-96		1		762							
FY 96																					
DISTANCE LEARNING [DCSOPS]																					
FY 97		VAR		C/FP		GSA Schedule		VAR		VAR		VAR		VAR		YES					
FY 98		VAR		C/FP		GSA Schedule		VAR		VAR		VAR		VAR							
DISN Europe Switch Upgrade																					
FY 99		DSSMP		C/FP/OPT		CECOM		Apr-99		Oct-99		VAR		VAR		YES					
REMARKS:		GTE, Needham, MA																			
		NAWC = Naval Air Warfare Center, St. Ignoces, MD																			
		AMSTAR, Frederick, MD																			
		* Multiple award and delivery dates throughout FY																			
		** Site specific. Unit cost varies depending on switch size and use of new or relocated switch.																			
		DSSMP = Digital Switch Systems Modernization Program (19 Contracts)																			

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEMS (EUCOM) (BB8800)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4
Initial Spares												
Total Proc Cost	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The European Telephone Switch (ETS) network switch replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: The replacement of the ETS switches is mandatory as stated by USCINCEUR in a memorandum to the Chairman of the Joint Chiefs of Staff and USAREUR in a memorandum to the Chief of Staff of the Army. The requirement is to continue to provide telephone services to the warfighters in the European theater and provide connectivity to the Sustaining Base in CONUS. The existing ETS switches will be unsupportable by Dec 2004. The existing ETS does not meet mission requirements today. If replacement switches are not installed by that time, there will be no reliable telephone service to the warfighter in garrison and there will be no access available to the worldwide Defense Information System Network (DISN) for warfighters deployed in the field. FY-99 funds will procure the replacement of switches in Europe.

(ID CODE A)

Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning													Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (EUCOM) (BBB800)								
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years									Each	\$000			
Communication Hardware/Software													
Upgrades													
FY 96			DYNAMIC CORP		OPTION	HQ USAISC	Jul-96	Sep-96	VAR	VAR			
FY 97			INET		MIPR	AIR FORCE MATERIAL CM	Aug-97	Oct-97	VAR	VAR			
FY 98			ALCATEL		OPTION	5TH SIGNAL COMMAND	Mar-98	May-98	VAR	VAR	YES		
FY 99			ALCATEL		OPTION	5TH SIGNAL COMMAND	Mar-99	May-99	VAR	VAR	YES	NO	
Desert Focus Initiatives:													
-Transmission Systems													
FY96			Tamimi		MIPR	COE	VAR*	VAR*	VAR	VAR			
FY96			VAR**		C/FP	PM TS	VAR*	VAR*	VAR	VAR			
FY96			TBS		MIPR	NISE EAST	Dec-97	Feb-98	VAR	VAR			
-Switching Systems													
FY 96			GTE		C/FP	PM SS	VAR*	VAR*	VAR	VAR			
- Technical Communication Facility													
FY 97			VAR***		MIPR	PM TS	VAR*	VAR*	VAR	VAR			
European Switch Upgrade													
FY 99			DSSMP		C/FP/OPT	USACECOM	Apr-99	Oct-99	VAR	VAR	NO		
REMARKS:													
Dynamic Corp, Burlington, MA			COE - Corps of Engineers		PM SS - Program Manager Switch Systems		GTE, Taunton, MA						
INET, Bethesda, MD			PM TS - Program Manager Transmission Systems		Tamimi, Dhahran, Saudi Arabia								
ALCATEL, Dallas, TX			NISE EAST - Naval Command Control and Ocean Surveillance Center In Service Engineering										
VAR*-multiple contracts awarded/delivered throughout year.			VAR**-Tobyhanna Army Depot (TOAD), Cumberland Army Depot, and Sharpe Army Depot										
VAR*** - Pulse Engineering, Beltsville, MD;Black Box, Lawrence, PA;Trompeter, West Lake Village, CA;ADC Telecom Ind, Portland, OR;Primary Telecom Ind, Falls Church, VA;Anixter, Tempe, AZ;Time Electronics, Tempe, AZ;Charles Industry, Rolling Meadows, IL;Information Electronics, St. Simons Island, GA;Telos Systems Integration, Ashburn, VA;Lockheed Martin Federal Systems, Oswego, NY													

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEMS (PACOM) (BB8900)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9
Initial Spares												
Total Proc Cost	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Information Systems (PACOM) encompasses non-tactical telecommunications requirements to support Army base operations and U.S. Military Command and Control (C2) requirements in the Pacific theater, including upgrade of fixed plant telephone systems in Korea and Japan. The upgrades of the Korea Telephone Network (KTN) and Japan Telephone Network (JTN) will modernize the Army telephone systems in the respective countries. The switch hardware and software will be upgraded to provide integrated voice and data capabilities, as well as to provide the added line capacity required to satisfy critical Korean warfighter missions.

JUSTIFICATION: The FY 99 funds will procure software and hardware upgrades at all host switches in Korea and Japan networks. These sites are the top priority of the Eighth U.S. Army and U.S. Army Japan. The upgrades will provide voice, data, and video services over a single Integrated Services Digital Network (ISDN) connection. Additionally, the upgraded switches will operate more efficiently, providing a cost avoidance for the Department of Defense.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB8900)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade													
A		760	1	760	778	1	778	829	1	829	10622	1	10622
C4 Korean Initiatives: Network Management System													
A		728	1	728									
Black Switch [EUSA 1													
A		123	1	123									
TOTAL		1611			778			829			10622		
NOTE: The unit cost varies because it's based on the size differences of individual switches (300 - 4,000 line size) and also inflation factors.													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature:					
Equipment			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
Contractor and Location			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
WBS Cost Elements:			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
Fiscal Years			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 96			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 97			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 98			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 99			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
C4 Korean Initiatives: Network Management System			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 96			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
Black Switch [EUSA]			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
FY 96			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
REMARKS:			Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
Korean Telephone Network			C/FP/OP		CECOM		Jul-96		1	
GTE, Needham Heights, MA			C/FP/OP		CECOM		Aug-97		1	
ISDN = Integrated Services Digital Network			C/FP/OP		CECOM		Mar-98		1	
BCS = Batch Change Supplement			C/FP/OP		CECOM		Mar-99		VAR	
SALC=Sacramento Air Logistics Center, Sacramento, CA			C/FP/OP		CECOM		Mar-99		VAR	
EUSA = Eighth US Army			C/FP/OP		CECOM		Mar-99		VAR	
JTN = Japan Telephone Network			CFP		CECOM		Jul-96		1	
BBN, Cambridge, MA			MIPR		CECOM		Jun-96		1	

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Initial Spares												
Total Proc Cost	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The program provides state-of-the-art major information system equipment such as integrated voice/data switches; Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user LAN transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects. Included in this program are funds for the renovation of the facility housing the War College at Fort McNair. The Army is executive agent for the National Defense University (NDU), which is renovating Building 60 at Fort McNair, to correct longstanding over-crowding and failing/antiquated mechanical systems. Classrooms are 1960's vintage or older and cannot accommodate modern electronic systems without major improvements to the building's infrastructure. The OPA funded information systems are critical to NDU's ability to comply with academic standards, improve the quality and professionalism of instructional systems, meet Congressional mandates for increased faculty/student ratio, and support growing student loads.

JUSTIFICATION: FY 99 funds support information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD), and minimum lead time required for acquisition and installation of associated information system equipment. FY 99 funding provides \$4.7M for the upgrade, installation and testing of an SL 100 Telephone switch for MCA project #26803 in Qatar in addition to other information systems requirements. Funding supports regulatory requirements as outlined in AR 415-15 and other applicable U.S. Army Directives. These funds are essential to insure that information systems are installed in sync with Corps of Engineer construction schedules. FY 99 funding supports thirty-five (35) approved MCA projects.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
MCA PROJECTS														
A		Telephone Switch	4532	2	2266	1940	1	1940	933	1	933	4779	1	4779
A		Switch Upgrades	125	7	VAR	1413	30	VAR	854	19	VAR	1818	21	VAR
A		Telephone System	82	14	VAR	240	47	VAR	380	21	VAR	508	22	VAR
A		Engineering	600	1	600	600	1	600	800	1	800	800	1	800
A		LAN Transport System	17	3	VAR	1770	30	VAR	293	15	VAR	1971	16	VAR
A		Information System Upgrade	487	1	487	3533	1	3533	2544	1	2544			
		Eisenhower Hall, Fort McNair (NDU)												
TOTAL			5843			9496			5804			9876		

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?		Date Revsn Avail	RFP Issue Date
Telephone Switch		VAR*		C/FP	ISEC-CONUS	VAR	VAR	2	2266				
FY 96		VAR*		C/FP	ISEC-CONUS	VAR	VAR	1	1940				
FY 97		TBS		C/FP	ISEC-CONUS	VAR	VAR	1	933	YES			
FY 98		TBS		C/FP	ISEC-CONUS	VAR	VAR	1	4779	YES			
FY 99													
Switch Upgrades		VAR*		OPTION**	ISEC-CONUS	VAR	VAR	7	VAR				
FY 96		VAR*		OPTION**	ISEC-CONUS	VAR	VAR	30	VAR				
FY 97		TBS		OPTION**	ISEC-CONUS	VAR	VAR	19	VAR	YES			
FY 98		TBS		OPTION**	ISEC-CONUS	VAR	VAR	21	VAR	YES			
FY 99													
Telephone System		VAR*		C/FP	ISEC-CONUS	VAR	VAR	14	VAR				
FY 96		VAR*		C/FP	ISEC-CONUS	VAR	VAR	47	VAR				
FY 97		TBS		C/FP	ISEC-CONUS	VAR	VAR	21	VAR	YES			
FY 98		TBS		C/FP	ISEC-CONUS	VAR	VAR	22	VAR	YES			
FY 99													
Engineering		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	600				
FY 96		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	600				
FY 97		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	800	YES			
FY 98		GOVERNMENT/SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	800	YES			
FY 99													
REMARKS: * Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates. ** Option to existing C/FP contracts VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.													

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)																	
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
LAN Transport System		VAR*		C/FP		ISEC-CONUS		VAR		VAR		3		VAR		YES					
FY 96		VAR*		C/FP		ISEC-CONUS		VAR		VAR		30		VAR		YES					
FY 97		TBS		C/FP		ISEC-CONUS		VAR		VAR		15		VAR		YES					
FY 98		TBS		C/FP		ISEC-CONUS		VAR		VAR		16		VAR		YES					
FY 99																					
Information System Upgrade		Ellerby Beckett, Inc.		C/FP		NDU		Sep-96		Sep-96		1		487		YES					
Eisenhower Hall, Fort McNair (NDU)		Ellerby Beckett, Inc.		C/FP		COE		Nov-96		Apr-97		1		3533		YES					
FY 96		TBS		C/FP		COE		Nov-97		Apr-98		1		2544		YES					
FY 97																					
FY 98																					
FY 99																					
REMARKS:		<p>Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.</p> <p>VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.</p> <p>Ellerby Beckett, Inc., Washington DC</p>																			

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												DEFENSE MESSAGE SYSTEM (DMS) (BU3770)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	159.9	13.7	7.7	6.3	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	159.9	13.7	7.7	6.3	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Initial Spares												
Total Proc Cost	159.9	13.7	7.7	6.3	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Message System (DMS) provides regional, installation level and user interfaces to DOD record communications services Armywide. The program is currently transitioning from Phase I to Phase II. Replacement of the AUTODIN Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN) Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals are DMS Phase I actions. Phase I is completed. Phase II focuses on the full scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. This process began in FY 95 and will continue under current funding levels through FY 00. Installation locations have been identified and installation/implementation staffing has been allocated. The new message system will feature: (1) A user operated service concept, (2) A single form of message service using a simplified message format, (3) Multilevel secure processing and (4) Automated local distribution via information transfer networks.

JUSTIFICATION: FY 99 funds continue to procure DMS compliant components from the Air Force sponsored DMS Government Open System Interconnection Profile (GOSIP) contract. These components consist of the User Agent e-mail software package, the Profiling User Agent (PUA), Secure Network Servers (SNS) and Subordinate Mail Transfer Agent/Message Store (SMTA/MS). FY 99 procurements will be expanded to include the Tactical Messaging System (TMS). As DMS GOSIP is phased in, AUTODIN will be phasing out. The phase-out, of AUTODIN Switching Centers (ASC), is expected to be completed by 31 December 1999 at an estimated 201 sites.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		DMS Government Open System Interconnect Profile (GOSIP) Components/EFI&T *	7214	VAR	VAR	3282	VAR	VAR	3758	VAR	VAR	1852	VAR	VAR
A		Tactical Messaging System (TMS)				2973	VAR	VAR				9000	VAR	VAR
A		Profiling User Agent (PUA)							1026	VAR	VAR	1711	VAR	VAR
A		Secure Network Servers (SNS)							2000	VAR	VAR	3760	VAR	VAR
A		Subordinate Mail Transfer Agent/Message Store (SMTA/MS)							944	VAR	VAR	400	VAR	VAR
A		Automated Gateway Messaging System (AGMS)	515	VAR	VAR									
TOTAL			7729			6255			7728			16723		
* Engineer Furnish Install and Test (EFI&T)														

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?
DMS Government Open System Interconnect Profile (GOSIP) Components/EFI&T ** FY 96 FY 97 FY 98 FY 99		Lockheed Martin		C/FP-Option	USAF	Jul-96	VAR *	VAR	VAR	
		Lockheed Martin				Nov-96	VAR *	VAR	VAR	
		Lockheed Martin				Apr-98	VAR *	VAR	VAR	
		Lockheed Martin				Apr-99	VAR *	VAR	VAR	
Tactical Messaging System (TMS) ** FY 97 FY 99		SM-ALC		C/FP	USAF	Nov-96	Sep-97	VAR	VAR	
		SM-ALC				Dec-98	Jun-99	VAR	VAR	
Profiling User Agent (PUA) ** FY 98 FY 99		Lockheed Martin		C/FP	USAF/CECOM	Jan-98	VAR *	VAR	VAR	
		Lockheed Martin				Jan-99	VAR *	VAR	VAR	
Secure Network Servers (SNS) ** FY 98 FY 99		Lockheed Martin		C/FP	USAF/CECOM	Feb-98	VAR *	VAR	VAR	
		Lockheed Martin				Feb-99	VAR *	VAR	VAR	
Subordinate Mail Transfer Agent/Message Store (SMTA/MS) FY 98 FY 99		Lockheed Martin		C/FP	USAF/CECOM	Mar-98	VAR *	VAR	VAR	
		Lockheed Martin				Mar-99	VAR *	VAR	VAR	
Automated Gateway Messaging System (AGMS) ** FY 96		GTE		C/FP	NAVY	Mar-96	Mar-96	VAR	VAR	
REMARKS: Lockheed Martin - Manassas, VA SM-ALC - Sacramento Air Logistics Center, CA GTE - General Telephone and Electronics, Chantilly, VA USAF - Gunter Air Force Base, Gunter, Alabama CECOM - Communications Electronic Command, Ft. Monmouth, N.J. * Multiple award and delivery dates throughout the FY ** Site specific										

Exhibit P-40, Budget Item Justification Sheet										Date:	
Appropriation / Budget Activity/Serial No:										February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										P-1 Item Nomenclature:	
Program Elements for Code B Items:										LOCAL AREA NETWORK (LAN) (BU4165)	
Code:										Other Related Program Elements:	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Initial Spares											
Total Proc Cost	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Common User Installation Transport Networks (CUITN), fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (ITSIP) designed to improve data communications transfer capabilities at Army installations. This program provides state-of-the-art, high-speed, common-user, data backbone networks and includes the hardware, software and interfaces to both site internal and external systems, networks and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the Defense Information Systems Network (DISN) Wide Area Network (WAN) external to the site. The Army is currently utilizing outdated systems, obsolete overstressed telephone resources, and expensive non-standard interim measures to satisfy the increasing data communications requirements. The installation backbone CUITN program will ensure a smooth transition to the Army's long-term objective architecture. The Army has increased the number of computers in use at installations Army wide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Standard Army Management Information Systems (STAMIS), which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of CUITN backbone networks. The CUITN backbone will complement the Integrated Services Digital Network (ISDN) when this capability becomes available. The CUITN backbone provides the means for transferring information within the confines of the Army's posts, camps and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DISN, tenant organizations (including tactical units), and the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

Exhibit P-40C Budget Item Justification Sheet		Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		LOCAL AREA NETWORK (LAN) (BU4165)	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>The CUITN Program is an integral part of the Power Projection Command Control Communications, and Computer Infrastructure (P2C4I) initiative. The overall objectives of P2C4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems; and (2) emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.</p> <p>JUSTIFICATION: FY 99 funds engineer, furnish and install backbone networks at one (1) sites on the Installation Sequence List (ISL) and continue implementation at three (3) sites. The CUITN effort is a continuing project. Installations to be upgraded are determined by the number and locations completed in the prior year. LAN installation is critical to support the ever increasing data transfer requirements attributable to actions supporting key Army wartime doctrines and the drawdown of Conventional Forces, Europe. The Army is currently using outdated systems, obsolete, overstressed telephone resources, and expensive, non-standard measures to satisfy the increasing data communications requirements. High speed, backbone LANs will be installed to modernize site data transport capability, improve connectivity, standardize transport networks, and increase capacity for key Army systems such as Defense Message System (DMS), Installation Support Module (ISM), Joint Computer-Aided Acquisition and Logistics System (JICALS), Combined Health Care System (CHCS), Reserve Component Automation System (RCAS) and certain legacy Sustaining Base Information Service (SBIS) applications. FY 99 funds, also provide for program management and engineering effort in support of the CUITN program.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: LOCAL AREA NETWORK (LAN) (BU4166)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Installation Backbone Local Area Network	45679	4*	VAR	17694	2*	VAR	17061	1*	VAR	9978	2*	VAR
		TOTAL	45679			17694			17061			9978		
* NOTE: Each LAN is site specific and costs vary for each site.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:															
Equipment		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
WBS Cost Elements:																			
Fiscal Years																			
Installation Backbone Local Area Network		AT&T, LORAL, EDS		CECOM		Nov-95		Jun-96		4		VAR							
FY 96 * **		LUCENT, EDS, LOCKHEED, GTE		CECOM		Dec-96		Jul-97		2		VAR							
FY 97 * **		LUCENT, EDS, LOCKHEED, GTE		CECOM		Jan-98		Aug-98		1		VAR		YES					
FY 98 * **		LUCENT, EDS, LOCKHEED, GTE		CECOM		Jan-99		Aug-99		2		VAR		YES		NO			
FY 99 * **																			
REMARKS: AT&T, Greensboro, NC EDS = Electronic Data Systems Corp, Herdon, VA LORAL = Loral Federal Systems, Springfield, VA GTE = GTE Government System Corp, Needham, MA Lockheed = Lockheed Martin Federal Systems, Owego, NY Lucent = Lucent Technologies, Greensboro, NC * Multiple awards and deliveries throughout the year. ** Site specific/unique. Configuration varies by site.																			

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998		Feb-98						
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		PENTAGON INFORMATION MGT AND TELECOM (BC0100)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1
Less PV Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1
Initial Spares												
Total Proc Cost	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Pentagon Renovation Project is an on-going construction project directed by Office of the Secretary of Defense and implemented by a Resident Program Manager, Corps of Engineers (COE), and a Project Manager for Information Management & Telecommunications (PM, IM&T), U.S. Army Materiel Command (USAMC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and implementing a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes moving the National Military Command Center (NMCC)/Service Operation centers, consolidating seven Telecommunications Control facilities, collocating 11 Automated Data Processing (ADP) facilities to two facilities, and consolidating 15 command and control, tactical, and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs. The Pentagon Renovation IM&T Project will provide modern integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corp, Air Force and Defense Agencies.

DESCRIPTION: This budget line includes funding for the Pentagon Telecommunications Center (PTC) and the Pentagon Renovation Information Management and Telecommunications Project. The Pentagon Telecommunications Center System (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed Automated Digital Network (AUTODIN) gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

Exhibit P-40C Budget Item Justification Sheet				Date	Feb-98
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				PENTAGON INFORMATION MGT AND TELECOM (BCQ100)	
Program Elements for Code B Items		Code	Other Related Program Elements		
<p>JUSTIFICATION: PENTAGON RENOVATION IM&T: The Deputy Secretary of Defense has directed the continuation of the Pentagon Renovation Program by starting Wedge construction in FY98. The FY99 funds procure hardware, such as servers and workstations, and management software to build out the Network and Systems Management Center, which manages the Unclassified and Classified Backbones for the Pentagon. Backbone infrastructure equipment purchases, such as data switches, routers, media and cable, and installation will continue as Basement areas are renovated by the Corps of Engineers. A portion of the FY99 program will purchase equipment and cutover circuits in the Consolidated Technical Control Facility in the renovated area of the basement. A portion of this program will purchase equipment to expand an administrative telephone switch in the Pentagon basement in support of the Pentagon's Total Switch Architecture. The largest portion of the FY99 program will be the purchase and installation of telecommunications infrastructure equipment in the Wedge 1 above ground area of the Pentagon as the Corps of Engineer's construction progresses through that area.</p> <p>JUSTIFICATION: PENTAGON TELECOMMUNICATIONS CENTER: FY98-FY01 funds procure Defense Message System (DMS) equipment platforms and electronic message delivery systems. Equipment platforms include: User Agents (UAS); Subordinate Message Transfer Agents (Smuts); Hardware (H/W) and Software (S/W); Certification Authority Work Stations (CAWs) H/W and S/W; Profile User Agents (PUAs); Bridge Head Servers; Multi-Functional Interpreters (MFIs) H/W and S/W; PCMCIA Card Readers; and FORTEZZA Cards. The objective is to provide secure and reliable message delivery to the customers' desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems procured. DMS will be mandatory once the system is fully implemented. DMS will be the only system available for Army customers who require messaging services, and it is currently being developed as a building-wide network in conjunction with the Pentagon Renovation Project. Programmed funding will equip a user community, which includes the highest levels of the Army staff and key decision making personnel, with the tools necessary to use DMS. Additionally, due to the ongoing Pentagon Renovation Project, the PTCs will be required to provide communication to those customers moving outside Pentagon during renovation.</p>					

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		PENTAGON RENOVATION IM&T												
	A	Unclass/Class Backbone, Basement				16548	*VAR	VAR	7500	*VAR	VAR	5400	*VAR	VAR
	A	Command/Ops Centers Equip/Install				7504	*VAR	VAR	1960	*VAR	VAR	1257	*VAR	VAR
	A	Network & Sys Mgmt Ctr HW/SW, Install				1508	*VAR	VAR	780	*VAR	VAR	450	*VAR	VAR
	A	Upgrade/Install Primary Red Switch				2240	*VAR	VAR						
	A	Consolidated Tech Cntrl Equip/Reform				1450	*VAR	VAR	1880	*VAR	VAR	1502	*VAR	VAR
	A	Digital Conferencing Switching System				1652	*VAR	VAR	100	*VAR	VAR			
	A	Swing Space Equip/Install				1749	*VAR	VAR						
	A	Primary Black Cmd/Cntrl Switching Equip				118	*VAR	VAR	150	*VAR	VAR			
	A	Unclass/Class Backbone, Wedge 1				15134	*VAR	VAR	13727	*VAR	VAR	25457	*VAR	VAR
	A	Support Equip/Components				100	*VAR	VAR	250	*VAR	VAR	250	*VAR	VAR
	A	Bus ADP Equip/Install				1432	*VAR	VAR				2875	*VAR	VAR
	A	Optical Remote Modules/Equip/Install							520	*VAR	VAR			
		PTC												
	A	Electronic Message Delivery Systems	100	VAR	VAR									
	A	AUTODIN Gateway Mail Server	275	10	28	815	*VAR	VAR	570	*VAR	VAR	2004	*VAR	VAR
	A	COMTEN Front End Processor	1850	VAR	VAR									
		TOTAL	2225			50250			27437			39195		

* Upgrade will be site specific, resulting in various unit costs and quantities.

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature:				
Uniclass/Class Backbone, Basement					PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Bell Atlantic FEDSIM	C/FP MIPR	DSS-W FEDSIM	Nov-96	Dec-96	VAR	VAR	Yes		
Bell Atlantic	C/FP	DSS-W	Nov-96	Jan-97	VAR	VAR	Yes		
Bell Atlantic	C/FP	DSS-W	Mar-98	May-98	VAR	VAR	Yes		
	C/FP	DSS-W	Oct-98	Dec-98	VAR	VAR	Yes		
Command/Ops Centers Equip/Install									
SRA	C/FP	Hanscom AFB	Jan-97	Mar-97	VAR	VAR	Yes		
Navy	MIPR	NISE-EAST	Dec-96	Mar-97	VAR	VAR	Yes		
SOFA	MIPR	SOFA	May-97	Jul-97	VAR	VAR	Yes		
SRA	C/FP	Hanscom AFB	Jan-98	Mar-98	VAR	VAR	Yes		
SRA	C/FP	Hanscom AFB	Oct-98	Dec-98	VAR	VAR	Yes		
Network & Sys Mgmt Ctr HW/SW, Install									
GMSI	IDIQ	DISA	May-97	Jun-97	VAR	VAR	Yes		
FEDSIM	MIPR	FEDSIM	May-97	Aug-97	VAR	VAR	Yes		
PRC	C/FP	DSS-W	Aug-97	Sep-97	VAR	VAR	Yes		
FEDSIM	MIPR	FEDSIM	Jan-98	Mar-99	VAR	VAR	Yes		
FEDSIM	MIPR	FEDSIM	Nov-98	Jan-99	VAR	VAR	Yes		
Upgrade/Install Primary Red Switch									
Raytheon	C/FP	SM-ALC	Feb-98	Mar-98	VAR	VAR	Yes	Feb 98	
Consolidated Tech Cntrl Equip/Reform									
NET	C/FP	DISA	Feb-97	Mar-97	VAR	VAR	Yes		
Air Force	MIPR	IMCEN	Jul-97	Sep-97	VAR	VAR	Yes		
NET	C/FP	DISA	Jan-98	Mar-98	VAR	VAR	Yes		
DITCO	MIPR	DISA	Oct-98	Jan-99	VAR	VAR	Yes		
REMARKS:									
DISA = Defense Information Systems Agency DSSW = Defense Supply Service-Washington SM-ALC = Sacramento Air Logistics Center, Sacramento, CA NET = Network Equipment Technologies, Rockville, MD FEDSIM = Federal System Integration Mgmt Center SAIC = Science Applications International Corp. SOFA = Special Operations Force Spt Activity-Bluegrass Station SRA = Systems Research Applications ASC = Army Signal Command GMSI = Global Mgmt Systems Inc. IMCEN = Information Mgmt Support Center-Army NISE EAST = Naval Information Systems Engineering DITCO = Defense Info Technology Contracting Agency SAM = Single Agency Manager -Army									

Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning													Date: February 1998								
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)														
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Digital Conferencing Switching System FY 97				Bell Atlantic Halifax		C/FP		DSS-W		Nov-96		May-97		VAR		VAR		Yes			
				Lucent		C/FP		CECOM		Sep-97		Oct-97		VAR		VAR		Yes			
				Bell Atlantic		C/FP		ASC		Sep-97		Oct-97		VAR		VAR		Yes			
FY 98								DSS-W		Mar-98		May-98		VAR		VAR		Yes			
Swing Space Equip/Install FY 97				Air Force		MIPR		SAM		Feb-97		May-97		VAR		VAR		Yes			
Primary Black Cmd/Cntrl Switching Equip FY 97 FY 98				Raytheon		C/FP		SM-ALC		Jul-97		Aug-97		VAR		VAR		Yes			
				Raytheon		C/FP		SM-ALC		Jan-98		Feb-98		VAR		VAR		Yes			
Unclass/Class Backbone, Wedge 1 FY 97 FY 98 FY 99				TBD		C/FP/OP		DSS-W		Dec-97		Mar-98		VAR		VAR		Yes		Aug-97	
				TBD		C/FP/OP		DSS-W		Feb-98		May-98		VAR		VAR		Yes			
				TBD		C/FP/OP		DSS-W		Dec-98		Mar-99		VAR		VAR		Yes			
Support Equip/Components FY 97 FY 98 FY 99				SAIC		C/FP		CECOM		Nov-96		Nov-96		VAR		VAR		Yes			
				SAIC		C/FP		CECOM		Dec-97		Jan-98		VAR		VAR		Yes			
				SAIC		C/FP		CECOM		Nov-98		Dec-97		VAR		VAR		Yes			
Bus ADP Equip/Install FY 97				Dynamix		Rqmts		DSS-W		Jul-97		Sep-97		VAR		VAR		Yes			
REMARKS:				DISA = Defense Information Systems Agency DSSW = Defense Supply Service-Washington SM-ALC = Sacramento Air Logistics Center, Sacramento, CA NET = Network Equipment Technologies, Rockville, MD FEDSIM = Federal System Integration Mgmt Center SAIC = Science Applications International Corp. SOFSA = Special Operations Force Spt Activity-Bluegrass Station										ASC = Army Signal Command GMSI = Global Mgmt Systems Inc. IMCEN = Information Mgmt Support Center-Army NISE EAST = Naval Information Systems Engineering DITCO = Defense Info Technology Contracting Office SAM = Single Agency Manager -Army SRA = Systems Research Applications							

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Optical Remote Modules/Equip/Install FY 98 FY 99	Bell Atlantic Bell Atlantic	C/FP C/FP	DSS-W DSS-W	Mar-98 Jan-99	Apr-98 Mar-99	VAR VAR	VAR VAR	Yes Yes			
Electronic Message Delivery Systems FY 96 FY 97 FY 98 FY 99	Navy Air Force Air Force Air Force	MIPR MIPR MIPR MIPR	SAM SAM SAM SAM	Jun-96 Jul-97 Dec-97 Dec-98	Sep-96 Sep-97 Feb-98 Feb-99	VAR VAR VAR VAR	VAR VAR VAR VAR	Yes Yes Yes Yes			
AUTODIN Gateway Mail Server FY 96	WHS Real Estate & Facilities	MIPR	PM Switch Systems	Jun-96	Sep-96	10	28				
COMTEN Front End Processor FY96	AT&T/NCR	C/FP/OPT	DSS-W	Jul-96	Sep-96	VAR	VAR				

REMARKS: DSS-W = Defense Supply Service-Washington
SAM = Single Agency Manager
AT&T/NCR = AT&T National Capital Region

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT 72 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BKS282)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	10.3	0.2	0.5	2.1	3.9	1.9	0.9	0.9	1.7	0.0	23.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.3	0.2	0.5	2.1	3.9	1.9	0.9	0.9	1.7	0.0	23.3	
Initial Spares												
Total Proc Cost	10.3	0.2	0.5	2.1	3.9	1.9	0.9	0.9	1.7	0.0	23.3	
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												GENERAL DEFENSE INTELL PROG (GDIIP) (BD3900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0	
Initial Spares													
Total Proc Cost	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0	
Flyaway U/C													
Wpn Sys Proc U/C													

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ITEMS LESS THAN \$2.0M (INTEL SPT) - TIAR (BL5276)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Initial Spares												
Total Proc Cost	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This line supports intelligence related (TIARA and non-TIARA) programs and activities for training Cryptologic, Signals Intelligence (SIGINT), Electronic Warfare (EW), and Imagery Intelligence (IMINT) skills. Funds will: upgrade devices to maintain commonality across similar systems; continue development and exploration of transferability of skill among UNIX-based program workstations; enable a seamless learning environment which facilitates time-shifted learning, self-paced study, and participation in realistic synthetic environments. New procedures and environments for training will enable students to work on real-world products and operations in support of the field Army. Students in one class will be able to team with students in another class or course in a common networked environment. All training devices should be built to a common simulation data architecture so they can use common data feeds and participate in virtual exercises. Simulations can also be delivered in target languages.

JUSTIFICATION: FY98 supports the following requirements: completes transition of MI Simulation Center to full DIS compliance; completes transition of SCL training LAN capabilities to full integration with JWICS Intellink; initiates acquisition of CI/HUMINT Automated Training System (CHATS); integrates all officer unclassified training material into a common software environment with standardized hardware; provides every instructor with a common software environment and plug-in networks available in classified and unclassified classrooms to present instruction and to handle training administration; obtains standardized low end multimedia presentation tools for both AC and RC; develops a high-speed path for all students and instructors to an industry on-line services provider; SUN Microsystems support of SIGINT Analyst training for programs such as ASAS and TROJAN; and imagery analyst training capabilities which mirror national imagery systems for TENCAP.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												(P-1 Item Nomenclature):
Program Elements for Code B Items:												ASAS - MODULES (TIARA) (K28801)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						7	7	5	5	4	28	
Gross Cost	404.1	4.5	11.5	13.8	22.8	60.9	63.5	49.7	63.4	144.7	863.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	404.1	23.4	11.5	13.8	22.8	60.9	63.5	49.7	63.4	144.7	881.9	
Initial Spares	6.0	0.3	2.0	0.6		1.8	5.4	8.0	8.6	11.4	44.1	
Total Proc Cost	410.1	23.7	13.5	14.4	22.8	62.7	68.9	57.7	72.1	156.1	926.0	
Flyaway U/C												
Wpn Sys Proc U/C												

(U) DESCRIPTION: The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing/reporting system and provides commanders the means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater intelligence assets, adjacent/higher/lower military intelligence processors and sensors, Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensors/teams, intelligence processors and joint/national/Army C3I systems.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Army Military Intelligence units and National Guard Enhanced Readiness Brigades) be accomplished by FY99. This accelerated fielding, called ASAS-Extended, is being accomplished by issuing ASAS software operating on Non-Developmental Item (NDI) commercial off-the-shelf (COTS) Common Hardware/ Software (CHS-2) to provide an ASAS capability to units not receiving the 12 previously procured ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the fielded ASAS baseline and by leveraging the traditional acquisition successes of ASAS Block I.

(U) JUSTIFICATION: FY 99 funding is required to replace selected aging Block I workstations with CHS-2 workstations and enhanced software; support digitization; and complete procurement and fielding of the last 4 ASAS-Extended unit sets. FY99 funding will also be used to fix the Year 2000 (Y2K) problem in the ASAS Communication Control Set and Compartmented ASAS Message Processing System.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) (K28801)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
ASAS-Extended Systems and Modules	A	1974	6	329	1927	9	214	1284	6	214	856	4	214
ASAS Hardware Modules	A	2700	*	VAR	3062	*	VAR	14996	*	VAR	11813	*	VAR
Project Management Administration		1239			1300			1250			1288		
Engineering Support					500								
Fielding		2438			2880			1978			6800		
Interim Contractor Support		3126			4155			3262			3360		
Other													
TOTAL		11477			13824			22770			24117		
* Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.													

* Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.

Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) (K28801)					
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
ASAS-Extended Systems (Workstations)											
FY 96	GTE Taunton, MA	C/Option	CECOM	Feb-96	Sep-96	12	60	N/A	N/A	N/A	N/A
FY 97	GTE Taunton, MA	C/Option	CECOM	Nov-96	Jun-97	18	60	N/A	N/A	N/A	N/A
FY 98	GTE Taunton, MA	C/Option	CECOM	Nov-97	Jan-98	12	60	N/A	N/A	N/A	N/A
FY 99	GTE Taunton, MA	C/Option	CECOM	Nov-98	Jun-99	8	60	N/A	N/A	N/A	N/A
ASAS-Extended Systems (Comms Modules)											
FY 96	CMI Woodland Hills, CA	CP/AF	ARL	Jun-96	Dec-96	6	209	N/A	N/A	N/A	N/A
FY 97	CMI Woodland Hills, CA	CP/AF	ARL	Nov-96	May-97	9	94	N/A	N/A	N/A	N/A
FY 98	CMI Woodland Hills, CA	CP/AF	ARL	Nov-97	Jun-98	6	94	N/A	N/A	N/A	N/A
FY 99	CMI Woodland Hills, CA	CP/AF	ARL	Nov-98	Jun-99	4	94	N/A	N/A	N/A	N/A
ASAS Hardware Modules											
FY96	GTE Taunton, MA	C/Option	CECOM	Nov-95	Jul-96	*	VAR	N/A	N/A	N/A	N/A
FY 97	GTE Taunton, MA	C/Option	CECOM	Dec-96	Jul-97	*	VAR	N/A	N/A	N/A	N/A
FY98	EWA, Fairmont, WV	FFP	CECOM	Nov-97	May-98	*	VAR	Yes	N/A	N/A	N/A
	GTE Taunton, MA	C/Option	CECOM	Nov-97	May-98	*	VAR	N/A	N/A	N/A	N/A
	GTE Taunton, MA	C/Option	CECOM	Nov-98	Jun-99	*	VAR	N/A	N/A	N/A	N/A
FY 99	EWA, Fairmont, WV	FFP	CECOM	Nov-98	Jun-99	*	VAR	Yes	N/A	N/A	N/A

REMARKS: All equipment is NDI/COTS purchased through PM CHS or other Army Activities.
* Equipment quantity and cost covers several workstation modules, components and communications sets.

Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:		Date:		February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		JTT/CIBS-M (TIARA) (V29600)	

Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			JTT/CIBS-M (TIARA) (V25600)									
Program Elements for Code B Items:			Other Related Program Elements:									
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	48		70	71	35	21	110	110	50	50	90	655
Gross Cost	74.9	11.6	29.1	20.8	11.2	5.3	24.8	25.5	12.4	13.0	0.0	228.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.9	11.6	29.1	20.8	11.2	5.3	24.8	25.5	12.4	13.0	0.0	168.6
Initial Spares	2.3	0.5	1.3	2.7	0.8	4.5						12.1
Total Proc Cost	17.2	12.1	30.4	23.5	12.0	9.8	24.8	25.5	12.4	13.0	0.0	180.7
Fiyaway U/C	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Wpn Sys Proc U/C	0.5	0.7	.4	.3	.3	.4	.2	.2	.3	.3	.2	

DESCRIPTION:

The Joint Tactical Terminal (JTT)/ Commander's Tactical Terminal (CTT) are a family of special application UHF Line of Sight (LOS)/ Satellite Communications (SATCOM) Secure Intelligence dissemination reporting system for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. Data from various sensors and HUMINT sources are transmitted over the Integrated Broadcast Service (IBS). Specific IBS transmission networks include the Tactical/ Reconnaissance Exchange System (TRIXS) network, the Tactical Information Broadcast Service (TIBS), Tactical Related Activities (TRAP) Data Dissemination System (TDDS), and Tactical Data Information eXchange System (TADIXS) networks. In addition, the terminals can also employ generic Ultra High Frequency (UHF) frequencies.

The IBS is the worldwide DOD standard Network for transmitting tactical and strategic intelligence and battle management data. Starting in FY98 the CTTs produced will begin migration towards the objective Joint Tactical Terminal (JTT) configuration, utilizing individual Common Integrated Broadcast Service-Modules (CIBS-M). The CTT has a 3 channel capability with 3 Receivers and 1 Transmitter. The JTT is the next generation DOD standard system which provides 8 receive, and 1 transmit channels, higher data throughput and module design.

The JTT and CTT 3 terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The JTT and CTT 3 facilitates, reaction inside the enemy decision cycle and is necessary to winning the information war on the battlefield.

JUSTIFICATION: The FY 99 funding procures JTT hardware to meet specified user requirements. FY 99 quantities include receive only and full duplex (receive/transmit) variants based on user identified requirements. JTT is a part of the Army's high priority initiative to digitize the battlefield.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE													
CTT (3 CH)	B	6246	18	347	16800	71	237						
JTT (T/R) Transmits and Receives	B	17050	*86	198				7420	35	212	3630	30	121
JTT (R ONLY) Receives only	B	1810	10	181				1920	10	192	808	8	101
CTT (OTHER SERVICE RQMTS)*						25							
JTT (OTHER SERVICE RQMTS)*	B		43			24			44			88	
SUPPORT													
ECOs		1431			1981			329			86		
DATA		528			301			105			38		
SYSTEM TEST & EVAL		577			95			75			59		
ENGINEERING SUPPORT													
IN-HOUSE		490			399			366			170		
CONTRACTOR		310			389			308			151		
Subtotal - ENGINEERING SUPPORT		800			788			674			321		
FIELDING													
PROGRAM MGMT (ADMIN)		268			259			75			53		
		366			577			592			345		
TOTAL		29076			20801			11190			5340		
Other services quantities are identified in order order to load P21 production delivery data													
*Quantities in the data base do not reflect actual quantities.													

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
CTT (3 CH) FY 96 FY 97	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	SS/FP SS/FP	CECOM CECOM	Dec-95 Jun-97	Jun-97 Jul-98	18 71	347 237	YES YES			
JTT (T/R) FY 96 FY 98 FY 99	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	C/FP OPTION OPTION	CECOM CECOM CECOM	Sep-97 Mar-98 Jan-99	Jun-99 Jan-00 Jul-00	70 35 30	198 212 121	YES YES YES			
JTT (R ONLY) FY 96 FY 98 FY 99	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	C/FP OPTION OPTION	CECOM CECOM CECOM	Sep-97 Mar-98 Jan-99	Dec-99 Jan-00 Jan-01	10 10 8	206 192 101	YES YES YES			
REMARKS: The FY 96 JTT contract was awarded and protested. The contract was recompeted and awarded in Sep 97. The first FY 96 CTT delivery is not an Army delivery. The first Army delivery is scheduled for Dec 97.											

[illegible]

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Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:		Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		February 1998	

P-1 Item Nomenclature:	
IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	

Program Elements for Code B Items:	Code:		Other Related Program Elements:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	58.4	45.5	41.4	0.0	25.4	30.7	83.8	95.4	107.1	0.0	487.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	58.4	45.5	41.4	0.0	25.4	30.7	83.8	95.4	107.1	0.0	487.7
Initial Spares		0.4	12.6	7.2		5.7	4.8	5.5	7.4	9.8		53.4
Total Proc Cost	0.0	58.8	58.1	48.6	0.0	31.1	35.5	89.3	102.8	116.9	0.0	541.1
Flwyway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Ground Based Common Sensor (GBCS) is an absolute win the battlefield information war element. GBCS provides the Commanders of Army Divisions, Armored Cavalry Regiments and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render threat command and control and fire control communications nets ineffective through electronic attack. GBCS provides capability to identify and precisely locate threat counter/mortar, counter/battery and ground surveillance radar emissions. The system is in two configurations specifically designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne and Air Assault elements in support of contingency operations. GBCS-Heavy is configured on a derivative of the Bradley Fighting Vehicle System, the Electronic Fighting Vehicle System (EFVS). The EFVS development and procurement is in concert with the Command and Control Vehicle (C2V) for deployment with Heavy and Armored units. It will be the Army's only on-the-move, all terrain, self-contained, fully integrated, 24-hour-a-day, signals intelligence and electronic attack asset.

GBCS exploits or eliminates, at the Commander's discretion, the latest most modern types of hostile modulations including modern radar and Low Probability of Intercept (LPI) communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, its helicopter counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery.

GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps. The program must be considered as a whole with GBCS-L, GBCS-H and AQF. All three programs leverage the others funding.

<p align="center">Exhibit P-40C Budget Item Justification Sheet</p>			<p>Date</p> <p align="center">February 1998</p>
<p>Appropriation / Budget Activity/Serial No.</p> <p align="center">OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</p>	<p>P-1 Item Nomenclature</p> <p align="center">IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)</p>		
<p>Program Elements for Code B Items</p>	<p>Code</p>	<p>Other Related Program Elements</p>	
<p>JUSTIFICATION: The FY99 funds start the GBCS full-rate production line to support Department of the Army approved Operational Requirements Document for contingency forces. Sensor subsystems include (1) TACJAM-A Electronic Support Measures (ESM) subsystem to intercept and locate conventional, digital data, burst, and LPI communications; (2) TACJAM-A Electronic Countermeasures (ECM) subsystem to freeze the enemy in place by jamming command and control and fire control communications; (3) CHALS-X(M) miniaturized precision location subsystem to provide for location of communications emitters sufficient for targeting by organic artillery; and (4) Common Modules ELINT Subsystem (CMES) to identify and locate, also with targeting accuracies, threat radars. The threat radars consist of counter mortar, counter battery, and ground surveillance radars using conventional and modern signal modulations.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2/ Communications and Electronics Equipment			P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	B	TACJAM-A ESM	14584			6870						7290		
		TACJAM-A ECM										1794		
		CHALS-X/M	5147			1690						1518		
		CMES *	18512			8398						8910		
		GBCS-L INTEGRATION/CFE/GFE												
		GBCS-L HARDWARE Sub Total	38243	4	9561	17815	2	8908				19512	2	9756
		CMES*				1713						1518		
		SUPPORT:												
		ECO'S				5000						100		
		DATA	3228			278						170		
		SYS TEST & EVAL				3021								
		ENGINEERING SPT:												
		IN-HOUSE	720			1150						1100		
		CONTRACT	200			1642						1236		
		FIELDING				3270						1052		
		INTERIM CONTRACT SUPPORT	2829			1394						400		
		PROGRAM MGMT (ADMIN)	250			250						300		
		TOTAL	45470			35533						25388		
FY97 Funding: \$5.9M is on withhold for Army reprogramming for digitization.														
*Provides current CMES hardware configuration for GBCS-L procured in prior fiscal years.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
GBCS-L HARDWARE										
FY96	Lockheed/Martin, Owego, NY	C/FP	CECOM	Jan-96	Jan-99	4	9561	Yes		
FY97	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-96	May-99	2	8908	Yes		
FY99	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-98	Nov-00	2	9756	Yes		
REMARKS: FY96 initiated competitive production. FY97 completes Limited Procurement requirements with the purchase of two systems.										

[illegible]

Exhibit P-21, Production Schedule

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												JOINT STARS (ARMY) (TIARA) (BA1080)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	21	16	16	14	20	20	20	8			143	
Gross Cost	128.4	55.2	83.2	84.7	87.2	88.5	107.0	31.3	7.1	0.0	763.7	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	128.4	55.2	83.2	84.7	87.2	88.5	107.0	31.3	7.1	0.0	763.7	
Initial Spares	6.3	3.1	3.6	8.6	8.7	6.3	6.4	7.1	4.5		60.9	
Total Proc Cost	134.7	58.3	86.8	93.3	95.9	94.8	113.4	38.4	11.6	0.0	824.6	
Flyaway U/C	5.9	6.2	4.4	4.3	4.4	4.5	4.6	4.3				
Wpn Sys Proc U/C	6.6	7.3	5.4	5.9	4.8	4.9	6.0	5.5				

DESCRIPTION: The Joint Surveillance Target Attack Radar System (Joint STARS) is a surveillance battle management and targeting system. It is a Joint Army and Air Force program with the Air Force as the executive service. The Joint STARS Radar is an airborne multimodal radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target Indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified E-8 aircraft (AN/TSQ-XXX) and broadcasts radar data to the Army Ground Station Modules (GSM) through an omnidirectional data link. In addition to Joint STARS data, the GSM will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The GSM is a tactical data processing and evaluation center that links the Joint STARS carried aboard the Air Force E-8 aircraft to the Army C3I Tactical Fire Direction System (TACFIRE) and All Source Analysis System (ASAS) nodes at the Corps, Division and Brigade levels. The GSM will assist commanders in determining battle management and targeting. As of FY96, Joint STARS Ground Stations will incorporate Secondary Imagery Dissemination and other enhancements via an approved Pre-Planned Product Improvement (P3I) program. These production line engineering change proposals (ECPs) will bring about the evolution of the GSM into the Army's Common Ground Station (CGS). The CGS will integrate signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fulfill an urgent air-land battlefield deficiency by providing an Army/Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Forward Line of Troops (FLOT).

JUSTIFICATION: The FY99 funds procure 20 units. The Army has a demonstrated critical requirement for a world-wide deployable ground station capable of processing and reporting radar intelligence and imagery intelligence obtained from a variety of airborne platforms (e.g. Joint STARS, objective deep Unmanned Aerial Vehicle (UAV), close UAV, and allied aerial platforms). The Joint STARS Ground Stations has repeatedly provided high value targeting and intelligence data to Field Commanders during contingencies (Operation Joint Endeavor), as well as during standard mission operations of fielded units. The CGS has proved to be a significant battle management asset to the Ground Commander. Joint STARS is a proven force multiplier, fielded to high priority units for worldwide deployment.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE													
COMMON GROUND STATION (CGS)													
CGS USMC ASSETS													
MGSM UPGRADE TO CGS CAPABILITY													
SUPPORT													
ECO'S													
DATA													
SYSTEM TEST AND EVAL													
ENGINEERING SUPPORT													
IN HOUSE													
PRIME CONTRACTOR													
Subtotal - ENGINEERING SUPPORT													
FIELDING													
PROGRAM MANAGEMENT (ADMIN)													
TOTAL													
		70544	16	4409	67536	16	4221	58212	14	4158	83800	20	4190
			2					25520	16	1595			
		5050			6181			3760					
		751			554			178					
		1756			2239			297					
		490			1720			279					
		1308			3408			482					
		1798			5128			761					
		2305			2075			1345					
		978			1006			1006					
		83182			84719			91079					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
COMMON GROUND STATION (CGS) FY 96 FY 97 FY 98 FY 99	Motorola, Scottsdale, AZ	C/FP	CECOM	Dec-95	Mar-97	16	4409			
	Motorola, Scottsdale, AZ	Option	CECOM	Jan-97	Mar-98	16	4221			
	Motorola, Scottsdale, AZ	Option	CECOM	Jul-98	Sep-99	14	4158			
	Motorola, Scottsdale, AZ	Option	CECOM	Jan-99	Apr-00	20	4190			
CGS USMC ASSETS FY 96	Motorola, Scottsdale, AZ	Option	CECOM	Sep-97	Feb-98	2	VAR			
MGSM UPGRADE TO CGS CAPABILITY FY 98	Motorola, Scottsdale, AZ	Option	CECOM	Dec-97	Nov-98	16	1595			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												NATO-AGS (BA1082)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The US is a major participant in a cooperative venture to provide a Ground Surveillance Capability for NATO forces. Initial efforts to evaluate various Air/Ground component solution sets for the NATO Alliance Ground Surveillance System (NAGS) commenced in May 1995. The Joint STARS system has been proposed by the US as the best solution for providing NATO with the required capability. The NAGS selection is scheduled for FY99.

JUSTIFICATION: The FY98 funds will be utilized for program management support for requirements development and production planning.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: NATO-AGS (BA1082)				Weapon System Type:		Date: February 1998			
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty						
		\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	\$000	Each	\$000
HARDWARE															
ENGINEERING SUPPORT															
PROGRAM MANAGEMENT (ADMIN)															
TOTAL															

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		INTEGRATED BROADCAST TERMINAL MODS (TIAR (BA1081))								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Integrated Broadcast Service (IBS) is the worldwide DOD standard network for transmitting tactical and strategic intelligence as well as battle management data. Starting in FY98, all DOD systems requiring access to the IBS will gain this access via a new family of common IBS modules (CIBS-M) and Joint Tactical Terminals (JTT). The initial CIBS modules will begin production in FY98 and ultimately upgrade all IBS migration tactical terminals currently in use by the services. Prior to the initiation of the CIBS-M program the services received the IBS Broadcast via the Commander's Tactical Terminal (CTT). The CTTs will require modifications to maintain accessibility and interoperability with the IBS Broadcasts. This will be done via CIBS-M.

JUSTIFICATION: The IBS plan directs that the Broadcast Networks maintain a standard technical configuration/approach that necessitates modifications to existing tactical terminals. The current support to Army, Air Force, Marine and Navy units provided via CTT must be maintained beyond the year 2005. The CTTs are integrated into numerous weapon systems and provide near real time intelligence data. The modifications funded via this program insure the continued receipt of this information and intelligence data by USA forces worldwide.

The FY99 funds are required to complete the modifications of fielded CTTs to allow them to maintain compliance and compatibility with evolving network standards. This includes a major upgrade to the terminal processors, replacement of the outdated COMSEC Circuitry with the current DOD standard chips, and addition of DAMA module.

Exhibit P-40M Budget Item Justification Sheet

Date _____

February 1998

Appropriation / Budget Activity/Serial No.

P-1 Item Nomenclature

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)

Program Elements for Code B Items

Code

Other Related Program Elements

Description

Fiscal Years

OSIP NO.	Classification
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OSIP NO.	Classification
SOFTWARE DOWNLOAD CAPABILITY	

1-97-XXX1 OPERATIONAL

PROCESSOR UPGRADE

1-97-XXX2
OPERATIONAL

COMSEC CIRCUITRY REPLACEMENT

1-97-XXX3 OPERATIONAL

DAMATIZATION

1-97-XXX4
OPERATIONAL

Totals

OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
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SOFTWARE DOWNLOAD CAPABILITY

1-97-XXX1	0.0	1.4	0.0	0.0	0.0	0.0	0.0
OPERATIONAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-97-XXX1	0.0	1.4	0.0	0.0	0.0	0.0	0.0

PROCESSOR UPGRADE

1977-1978	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	1989-1990	1990-1991	1991-1992	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-2214	2214-2215	2215-2216	2216-2217	2217-2218	2218-2219	2219-2220	2220-2221	2221-2222	2222-2223	2223-2224	2224-2225	2225-2226	2226-2227	2227-2228	2228-2229	2229-2230	2230-2231	2231-2232	2232-2233	2233-2234	2234-2235	2235-2236	2236-2237	2237-2238	2238-2239	2239-2240	2240-2241	2241-2242	2242-2243	2243-2244	2244-2245	2245-2246	2246-2247	2247-2248	2248-2249	22
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COMSEC CIRCUITRY REPLACEMENT

INDIVIDUAL MODIFICATION											
										Date	February 1998
MODIFICATION TITLE: CTT 2 SOFTWARE DOWNLOAD CAPABILITY 1-97-XXX1											
MODELS OF SYSTEMS AFFECTED: Commander's Tactical Terminal (CTT) 2 CHANNEL H/R											
DESCRIPTION / JUSTIFICATION: <p>This modification provides software and hardware changes to the CTT 2 by replacing EPROMS on several processor boards with FLASHPROMS. This will allow future software updates to be downloaded either from the HOST processor or via the maintenance port. This will obviate the necessity to return the radios to the factory for each future software change.</p>											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <div style="display: flex; justify-content: space-between;"> <div>Enter Milestones Here.</div> <div> <u>PLANNED</u> </div> <div> <u>ACCOMPLISHED</u> </div> </div>											
<div style="display: flex; justify-content: space-between;"> <div> CTT 2 CHANNEL UPGRADE AWARD MOD INSTALLATION START INSTALLATION COMPLETE </div> <div> DEC 96 FEB 97 SEP 97 </div> </div>											
Installation Schedule:											
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Pr Yr											
Totals	1	2	3	4	1	2	3	4	1	2	3
		20	30	27							
		15	30	32							
Inputs											
Outputs											
		FY 2002		FY 2003		FY 2004		FY 2005		Totals	
	1	2	3	4	1	2	3	4	1	2	3
Inputs											
Outputs											
METHOD OF IMPLEMENTATION:											
Contract Dates:		FY 1997		DEC 96		FY 1998		Enter Date		PRODUCTION LEADTIME: 1 Months	
Delivery Date:		FY 1997		FEB 97		FY 1998		Enter Date		FY 1999	

INDIVIDUAL MODIFICATION																			
CTT 2 SOFTWARE DOWNLOAD CAPABILITY 1-97-XXX1																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
		77	0.7															77	0.7
			0.1																0.1
			0.1																0.1

INDIVIDUAL MODIFICATION												Date	February 1998
MODIFICATION TITLE: MIGRATION SYSTEM PROCESSOR UPGRADE '1-97-XXX2													
MODELS OF SYSTEMS AFFECTED: CTT's													
DESCRIPTION / JUSTIFICATION:													
<p>The Integrated Broadcast Services (IBS) Plan mandates that a Common capability and signal parameter be identified and implemented to maintain and insure oversight of the Broadcast networks and commonality/interoperability of all tactical terminal/receivers.</p> <p>As the IBS networks migrate to the Common Standard, existing systems in the field must pace the networks progression or face obsolescence through the enabling to interoperate with the evolving standards.</p> <p>This modification replaces existing processors in the CTTs with a standard, logical oriented process that will simplify future upgrades, reduce O&S costs and extend the operational life of the current field assets.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
<div style="display: flex; justify-content: space-between;"> <div> PROCESSOR UPGRADE: AWARD MOD CONTRACTOR TEST INSTALLATION START INSTALLATION COMPLETE </div> <div> PLANNED FEB 98 NOV 98 FEB 99 SEP 99 </div> <div> ACCOMPLISHED </div> </div>													
Installation Schedule:													
Inputs Outputs	Pr Yr	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4
Inputs Outputs	Totals												
Inputs Outputs	Totals												
<div style="display: flex; justify-content: space-between;"> <div> METHOD OF IMPLEMENTATION: Contract Dates: FY 1997 Delivery Date: FY 1997 </div> <div> ADMINISTRATIVE LEADTIME: 4 Months FY 1998 FEB 98 FY 1998 FEB 99 </div> <div> PRODUCTION LEADTIME: 12 Months FY 1999 DEC 98 FY 1999 MAY 99 </div> </div>													

INDIVIDUAL MODIFICATION													
MIGRATION SYSTEM PROCESSOR UPGRADE 1--97-XXX2													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits			10	0.2	108	2.8							118
Installation Kits, Nonrecurring Equipment				1.0									3.0
Equipment, Nonrecurring													1.0
Engineering Change Orders													
Data													
Training Equipment					0.1								0.1
Support Equipment													
Other							0.2						0.2
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits					10	0.1							10
FY 2000 Eqpt -- kits					108	0.5							108
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation					118	0.6							118
Total Procurement Cost					1.3	3.6							4.9

INDIVIDUAL MODIFICATION													
COMSEC CIRCUITRY REPLACEMENT 1--97-XXX3												Date	February 1998
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits			40	0.4	78	0.7							118
Installation Kits, Nonrecurring Equipment				0.2									1.1
Equipment, Nonrecurring													0.2
Engineering Change Orders													
Data													
Training Equipment					0.1								0.1
Support Equipment													
Other							0.2						0.2
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment							118	0.3					118
Total Procurement Cost						0.7		1.2					1.9

INDIVIDUAL MODIFICATION																	
MODIFICATION TITLE: DAMATIZATION 1-97-XXX4										Date: February 1998							
MODELS OF SYSTEMS AFFECTED: CTT'S																	
DESCRIPTION / JUSTIFICATION:																	
<p>JCS has mandated that <u>all</u> MILSATCOM UHF terminals be Demand Assigned Multiple Access (DAMA) compliant because of increasing communications load on the present MILSTACOM architecture across the theater CINCs.</p> <p>OSD (C3I) has directed that the JTT be DAMA compliant regardless of present IBS Network capabilities and requirements. It is anticipated that IBS will implement DAMA.</p> <p>This modification will provide the capability for the CTT as a migration system to be DAMA compliant along with the objective JTT system and comply with JCS mandates.</p>																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																	
<div style="display: flex; justify-content: space-between;"> PLANNED ACCOMPLISHED </div>																	
<p>Enter Milestones Here.</p> <p><u>DAMA</u></p> <p style="margin-left: 40px;">AWARD MOD FEB 98</p> <p style="margin-left: 40px;">INITIAL KIT DELIVERY NOV 98</p> <p style="margin-left: 40px;">INSTALLATION START FEB 99</p> <p style="margin-left: 40px;">INSTALLATION COMPLETE SEP 99</p>																	
Installation Schedule:																	
Inputs Outputs	Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
										20	35	35	28				
Inputs Outputs		FY 2002			FY 2003			FY 2004			FY 2005			Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
<div style="display: flex; justify-content: space-between;"> <div> <p>METHOD OF IMPLEMENTATION:</p> <p>Contract Dates: FY 1997 Enter Date FY 1998 FEB 98</p> <p>Delivery Date: FY 1997 Enter Date FY 1998 FEB 99</p> </div> <div> <p>ADMINISTRATIVE LEADTIME: 4 Months</p> <p>PRODUCTION LEADTIME: 12 Months</p> </div> </div>																	

INDIVIDUAL MODIFICATION																				
MODIFICATION TITLE (Cont):												Date								
DAMATIZATION 1-97-XXX4																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits					20	0.2	98	1.2											118	1.4
Installation Kits, Nonrecurring Equipment						0.9														0.9
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment							0.1													0.1
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment							118	0.5											118	0.5
Total Procurement Cost							1.2	1.7												2.9

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code: B											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	21		37	3	4	12	9	22	16	5		129	
Gross Cost	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Initial Spares													
Total Proc Cost	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in Apr 94 by the Combat Developer, stated the requirement to proceed immediately with the Downsized DTSS configuration and further identified that Quick Response Multicolor Printer functionality would be incorporated in the DTSS for a single integrated terrain analysis and reproduction capability. It has been determined that the downsized capability is now more appropriate to support highly mobile contingency operations, stability and support operations, and split based operations. The DTSS/QRMP will be deployed at Division, Corps, and Echelons Above Corps in support of these missions. The DTSS/QRMP will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g., captured enemy maps) and other topographic and terrain products. Part of imagery exploitation includes the development of a Multispectral Imagery Processor (MSIP), which provides an image map making capability. Due to current world events and the possibility of contingency missions in areas where standard map products are not available, image map production has become an urgent need. The CTIS program office was tasked with the mission to issue the DTSS-MSIP as an interim measure to topographic units. Delivery of the DTSS-MSIPs was completed in Jun 95. Enhancements to the DTSS-MSIPs have been issued to all of the active duty topographic units and includes the delivery of upgraded software and scanners. CTIS systems are vital players in Army Digitization and in the quest for information dominance. CTIS systems operate with the Army Battle Command System architecture.

Exhibit P-40C Budget Item Justification Sheet		Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550)	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>JUSTIFICATION:</p> <p>FY99 funding will be used for procurement of the DTSS/QRMP-Light. The DTSS/QRMP-Light provides combined DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii, and Korea (PACOM).</p>			

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. Hardware	A								
a. DTSS-MSIP (Enhancements)		1552	35	44					
b. DTSS Upgrade		2670	2	1335	3855	3	1285	5000	4
DTSS/QRMP-Heavy (5-ton Upgrade)		250			250				
QRMP EMD ISO 20 Upgrade								15280	10*
c. DTSS/QRMP-Light									
2. Engineering Support									
a. DTSS/QRMP ECP Engineering		500			300			775	
b. Misc Out-of-House Engineering		400			400			300	
3. Fielding									
a. Total Package Fielding		136			250			650	
b. New Equipment Training		68			200			650	
c. First Destination Transportation		20			31			275	
4. Project Management and Administration		740			740			800	
5. Interim Contractor Support		400			360				
6. Institutional Training (Hardware Procurement)								2500	
TOTAL		6736			6386			21230	

* Quantity has been adjusted to reflect current program planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
a. DTSS-MSIP (Enhancements)										
FY 96	LMC, Fort Washington, PA	C/FP	USA Topo Eng Center	Jan-96	Feb-96	35	44	Yes		
b. DTSS Upgrade										
DTSS/QRMP-Heavy (5-ton Upgrade)										
FY 96	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Aug-96	Aug-97	2	1335	Yes		
FY 97	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Jan-97	Nov-97	3	1285	Yes		
FY 98	TBS	C/FP	USA Topo Eng Center	Feb-98	Apr-99	4	1250	Yes		
c. DTSS/QRMP-Light										
FY 99	TBS	C/FP	USA Topo Eng Center	Nov-98	Oct-99	10	1528	Yes		
REMARKS: FY99 funding will be used for procurement of the DTSS/QRMP-Light. The DTSS/QRMP-Light provides combined DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii, and Korea (PACOM).										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
TACTICAL EXPLOITATION OF NATIONAL CAPAB (B27315)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1
Initial Spares												
Total Proc Cost	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description: The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. To date, the program has been responsible for provisioning the AN/TSQ 134(V) (Advanced Electronic Processing and Dissemination System (AEPDS)), the Forward Area Support Terminal (FAST), the Mobile Integrated Tactical Terminal (MITT) and the emerging Tactical Exploitation System (TES) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF S-Band and terrestrial communications packages, and with the exception of FAST, systems are contained in shelters or vans, with a dedicated primemover and system operators. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES) which are funded under the Defense Airborne Reconnaissance Office (DARO), PE 0305154D Defense Airborne Reconnaissance Program (DARP).

Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II and the Army's TENCAP Master Plan.

Justification: The FY98/99 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
a. MITT/FAST/AEPDS (Chariot, SLDCOM)												
FY 97			Classified	Clstd	Classified	2Q97	2Q98	12	152	Yes		
b. GFE for TES												
FY 98 - TMV/TSV Vans			Classified	Clstd	Classified	1Q98	4Q98	3	543	Yes		
FY 99 - DAMA Capable Radios			Classified	Clstd	Classified	2Q99	4Q00	3	563	Yes		
REMARKS: CHARIOT: Mobile S-Band Transceiver Terminal DAMA: Demand Assigned Multiple Access for UHF Satellite Communications GFE: Government Furnished Equipment SLDCOM: Satellite Launch Dispenser Communications TMV: Tactical Mission Van TSV: Tactical Support Van												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												JOINT TACTICAL GROUND STATION MODS (B28420)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The Joint Tactical Ground Station (JTGS) Modification program will integrate into JTGS, the Joint Tactical Information Distribution System (JTIDS) which will distribute JTGS data via the Joint Theater Missile Defense (JTMD) communication nets; fuse Defense Support Program (DSP) sensor data with data from other sensors for improved cueing and predicted ground impact point (PGIP) accuracies; and calibrate sensor location via static sources or beacons.

JUSTIFICATION:
FY99 funding procures and integrates JTIDS radios into JTGS which are needed to interface directly with the Joint Theater Warning Net.

INDIVIDUAL MODIFICATION																																																																																																																						
Date										February 1998																																																																																																												
MODIFICATION TITLE: Sensor Fusion TBD1																																																																																																																						
MODELS OF SYSTEMS AFFECTED: Data Processing Subsystem																																																																																																																						
DESCRIPTION / JUSTIFICATION: <p>The Sensor Fusion modification adds the capability to integrate other sensor data with Defense Support Program (DSP) data to improve accuracy of the predicted ground impact point (PGIP) and state vector. JTAGS currently receives and processes data from the DSP constellation of satellites only. The overall accuracy and utility of data provided to theater forces could be greatly enhanced and reduction in system performance risk obtained from fusion of DSP data with data from other sensors. Fusion is currently a growth requirement in the JTAGS Operational Requirements Document (ORD). Fusion will allow the program to move toward the required PGIP Program Objective.</p>																																																																																																																						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> PLANNED Initiate Development 1QFY97 Complete Development 1QFY98 IPR Production Decision 1QFY98 </td> <td style="width: 50%; vertical-align: top;"> ACCOMPLISHED 1QFY97 1QFY98 </td> </tr> </table>															PLANNED Initiate Development 1QFY97 Complete Development 1QFY98 IPR Production Decision 1QFY98	ACCOMPLISHED 1QFY97 1QFY98																																																																																																						
PLANNED Initiate Development 1QFY97 Complete Development 1QFY98 IPR Production Decision 1QFY98	ACCOMPLISHED 1QFY97 1QFY98																																																																																																																					
Installation Schedule: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td>5</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </tbody> </table>															Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs																					Outputs								5													Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																																																					
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th colspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>Complete</th><th>To</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	To	Inputs																			Outputs																			Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																																																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	To																																																																																																				
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METHOD OF IMPLEMENTATION: <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Contract Dates:</td> <td style="width: 10%;">FY 1997</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 1998</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 1999</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2000</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2001</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2002</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2003</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2004</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2005</td> <td style="width: 10%;">Enter Date</td> <td style="width: 10%;">FY 2006</td> <td style="width: 10%;">Enter Date</td> </tr> <tr> <td>Delivery Date:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>															Contract Dates:	FY 1997	Enter Date	FY 1998	Enter Date	FY 1999	Enter Date	FY 2000	Enter Date	FY 2001	Enter Date	FY 2002	Enter Date	FY 2003	Enter Date	FY 2004	Enter Date	FY 2005	Enter Date	FY 2006	Enter Date	Delivery Date:																																																																																		
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Delivery Date:																																																																																																																						

INDIVIDUAL MODIFICATION													
Date ##### P3a Templates exist.													
MODIFICATION TITLE (Cont): Sensor Fusion TBD1													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E				0.8		0.8							1.6
PROCUREMENT													
Kit Quantity					5	0.6							5 0.6
Installation Kits, Nonrecurring													
Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits					5	0.1							5 0.1
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation					5	0.1							5 0.1
Total Procurement Cost						0.7							0.7

INDIVIDUAL MODIFICATION														Date		February 1998				
Beacons TBD2																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E				0.9		0.6														1.5
PROCUREMENT																				
Kit Quantity					6	2.0													6	2.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits					6	0.1													6	0.1
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment					6	0.1													6	0.1
Total Procurement Cost						2.1														2.1

INDIVIDUAL MODIFICATION												Date: February 1998
MODIFICATION TITLE: Joint Tactical Information Distribution System (JTIDS) TBD3												
MODELS OF SYSTEMS AFFECTED: Communication Subsystem												
DESCRIPTION / JUSTIFICATION:												
<p>The JTIDS Operational Requirements Document (ORD) requires that the system be capable of accepting and using JTIDS. This improvement will satisfy the ORD requirement. Integration of the JTIDS radios will permit JTIDS to interface directly with the Joint Theater Warning Net, which will support the dissemination of information to all elements of Theater Missile Defense (TMD) operations.</p>												
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:												
			PLANNED			ACCOMPLISHED						
Initiate Development			3QFY97			3QFY97						
Complete Development			1QFY99									
IPR Production Decision			1QFY99									
Installation Schedule:												
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		
Pr Yr	1	2	3	4	1	2	3	4	1	2	3	4
Totals							5					
Inputs												
Outputs												
		FY 2002		FY 2003		FY 2004		FY 2005		To		Totals
1	2	3	4	1	2	3	4	1	2	3	4	Complete
												5
Inputs												5
Outputs												5
METHOD OF IMPLEMENTATION:												
Contract Dates:		FY 1997		Enter Date		FY 1998		Enter Date		FY 1999		Enter Date
Delivery Date:		FY 1997		Enter Date		FY 1998		Enter Date		FY 1999		Enter Date
												3 Months
												Dec
												Mar

INDIVIDUAL MODIFICATION														February 1998				
Joint Tactical Information Distribution System (JTIDS) TBD3																Date		
MODIFICATION TITLE (Cont):																		
FINANCIAL PLAN: (\$ in Millions)																		
FY 1996 and Prior	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		0.3		1.5		0.1												1.9
PROCUREMENT																		
Kit Quantity					5	2.5											5	2.5
Installation Kits																		
Installation Kits, Nonrecurring																		
Equipment																		
Equipment, Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
FY 1996 & Prior Eqpt -- Kits																		
FY 1997 Eqpt -- Kits																		
FY 1998 Eqpt -- Kits																		
FY 1999 Eqpt -- Kits					5	0.1											5	0.1
FY 2000 Eqpt -- kits																		
FY 2001 Eqpt -- kits																		
FY 2002 Eqpt -- kits																		
FY 2003 Eqpt -- kits																		
TC Equip-Kits																		
Total Installment					5	0.1											5	0.1
Total Procurement Cost						2.6												2.6

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1988	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											TROJAN (TIARA) (BA0326)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Initial Spares												
Total Proc Cost	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid relay; secure communications to include voice, data, facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing analysis and reporting efforts.

JUSTIFICATION: FY99 funds collection and processing system upgrades, dissemination enhancements, networking improvements, and migration to a National Common Remoted Systems (CRS) architecture.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code 8 Items:												TROJAN CLASSIC (TIARA) (BA0031)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	92.0	3.1	3.2	2.1	3.3	4.4	4.5	4.5	4.5		125.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	92.0	3.1	3.2	2.1	3.3	4.4	4.5	4.5	4.5		125.0	
Initial Spares												
Total Proc Cost	92.0	3.1	3.2	2.1	3.3	4.4	4.5	4.5	4.5		125.0	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.

TROJAN consist of four subsystems: remote receiver groups, located at border sites; monitor control groups to include analyst workstation groups, located at unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions.

JUSTIFICATION: FY99 funds for collection and processing system upgrades and migration to a National Common Remoted Systems (CRS) architecture.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2/ Communications and Electronics Equipment			P-1 Line Item Nomenclature: TROJAN CLASSIC (TIARA) (BA0331)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Hardware Procurement	2501	VAR	VAR	1439	VAR	VAR	2575	VAR	VAR	2855	VAR	VAR
		Engineering/Technical Support												
		In-House Contractor	500 175			500 175			500 175			500 175		
		TOTAL	3176			2114			3250			3530		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature:				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Hardware Procurement FY96		Hewlett Packard, Rockville, MD Andrews-SICOM, Garland, TX Converse, Woodbury, NJ ESI, Richardson , TX ASC, Winterpark, FL		C/FP(Op) FP C/FP(Op) C/FP(Op) C/FP(Op)	CECOM CECOM CECOM CECOM CECOM	Jan-96	Jun-96	VAR	VAR	YES	NO	
						Mar-96	Sep-96	VAR	VAR	YES	NO	
						Apr-96	Oct-96	VAR	VAR	YES	NO	
						Jun-96	Aug-96	VAR	VAR	YES	NO	
						Jun-96	Dec-96	VAR	VAR	YES	NO	
Hardware Procurement FY97		Converse, Woodbury, NJ ESI, Richardson , TX Hewlett Packard, MD ASC, Winterpark, FL		C/FP(Op) C/FP(Op) C/FP(Op) C/FP(Op)	CECOM CECOM CECOM CECOM	Nov-96	Apr-97	VAR	VAR	YES	NO	
						Jan-97	May-97	VAR	VAR	YES	NO	
						Feb-97	Jul-97	VAR	VAR	YES	NO	
						Apr-97	Aug-97	VAR	VAR	YES	NO	
						Dec-97	Apr-98	VAR	VAR	YES	NO	
Hardware Procurement FY98		Hewlett Packard, MD TBS ASC, Winterpark, FL Sun Microsystems CISCO Systems, Waltham MA OAO, Greenbelt, MD		C/FP(Op) FP(Op) FP(Op) FP(Op) FP(Op)	CECOM CECOM CECOM GSA GSA NIH	Feb-98	Jun-98	VAR	VAR	YES	NO	
						Apr-98	Aug-98	VAR	VAR	YES	NO	
						Apr-98	Jul-98	VAR	VAR	YES	NO	
						May-98	Aug-98	VAR	VAR	YES	NO	
						Jul-98	Oct-98	VAR	VAR	YES	NO	
Hardware Procurement FY99		Andrews-SICOM, Garland, TX Sun Microsystems CISCO Systems, Waltham MA OAO, Greenbelt, MD		FP(Op) FP(Op) FP(Op) FP(Op)	CECOM GSA GSA NIH	Nov-98	May-99	VAR	VAR	YES	NO	
						Dec-98	May-99	VAR	VAR	YES	NO	
						Mar-99	Jul-99	VAR	VAR	YES	NO	
						Apr-99	Sep-99	VAR	VAR	YES	NO	
						REMARKS: Peculiarities of individual system mission and fielding locations require each TROJAN subsystem to be unique with compatible and interoperable hardware and software.						
ESI, Electrospace Systems Incorporated ASC, Advanced Systems Corporation												

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2
Initial Spares												
Total Proc Cost	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The TROJAN SPIRIT II is a collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations.

TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; (HF/MSE/CTT receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment.

JUSTIFICATION: FY99 funds to provide intelligence/communications enhancements to the TROJAN automated switching architecture and TROJAN Network Control Center (TNCC).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Hardware TROJAN Spirit II	15336	10	1534	2065	VAR	VAR	479	VAR	VAR	461	VAR	VAR
		TOTAL	15336			2065			479			461		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware FY96 FY 97 FY 98 FY 99	ESI, Richardson, TX ESI, Richardson, TX Raytheon, Richardson, TX TBS	C/FP(Op) C/FP(Op) C/FP(Op) C/FP(Op)	CECOM CECOM CECOM CECOM	Oct-95 Jan-97 Aug-98 Dec-98	Aug-96 Jul-97 Jul-98 Jul-99	10 VAR VAR VAR	1534 VAR VAR VAR	YES YES YES YES	NO NO NO NO	
REMARKS: ESI, Electrospace Systems Incorporated MAP Mobile Antenna Platform										

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)												
Program Elements for Code B Items:		Other Related Program Elements:												
Code:		Code:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty														
Gross Cost	177.4	13.2	18.9	14.4	4.9	14.3	12.4	12.8	21.2	0.0	291.2			
Less FY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	177.4	13.2	18.9	14.4	4.9	14.3	12.4	12.8	21.2	0.0	291.2			
Initial Spares		11.6	10.2	1.5	1.4						24.7			
Total Proc Cost	177.4	24.8	29.1	15.9	3.1	14.3	12.4	12.8	21.2	0.0	315.9			
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION: This is a roll line containing modification efforts in baby Standard Study Numbers as follows:
 Mods for Intelligence Electronic Warfare (IEW) Heavy Force Systems (BZ9751) provide for Enhanced TRACKWOLF, AN/TSQ-199, materiel changes to provide and provide increased communication, flexibility and handling throughout the Direction Finding network. Enhanced TRACKWOLF is a High Frequency (HF) Skywave Communications Intelligence system which supports Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis System.

Mods for IEW Light Force Systems (BZ9752) provide for three materiel change/upgrades to: (1) TRAILBLAZER, AN/TSQ-138, SINGGARS Interference Cancellation upgrade to resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS). SINGGARS is the new generation of Combat Net Radio (CNR). SINGGARS is replacing the AN/VRC-12 family of single channel radios. The integration of SINGGARS requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. (2) TEAMMATE (TM), AN/TRQ-32, Tactical Proficiency Trainer (TM TPT) materiel change will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. Operationally, the concept design works by injecting a modulated Radio Frequency (RF) signal into the TM's RF Distribution Unit from which simulations could be made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TSQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function. (3) The AN/PRD-13(V)2 provides for an organic system that can intercept, DF and provide threat warning and situational awareness information directly to the support unit. The system is modular, very light weight, with minimal power requirements and configurable to support man-pack operations. Due to a number of operational and technical reasons, and changes in tactical Signals

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)		
Program Elements for Code B Items	Code	Other Related Program Elements		
<p>Intelligence (SIGINT) architecture that are rapidly evolving out of the SIGINT, netting is not the way of the future, opting instead for rapid synchronization of those individual collections in a sanctuary environment.</p> <p>JUSTIFICATION. The FY99 funds provide for a Headquarters Department of the Army requirement for the procurement of AN/PRD-13(V)2 systems in support of Special Operations Command to US Army Light Divisions. Division commanders and/or G-2 has provided written operational need for a follow on system replacement for the AN/PRD-12, vice the currently proposed system upgrades to the AN/PRD-12.</p>				

Exhibit P-40M Budget Item Justification Sheet												Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)											
Program Elements for Code B Items		Code	Other Related Program Elements										
Description		Fiscal Years											
OSIP NO.	Classification	FY 1996 & Prior	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total		
SINGGARS Interference Cancellation													
1-91-07-0003	Operational	16.5	14.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	32.6		
TEAMMATE Tactical Proficiency Trainer (TPT)													
1-93-07-0002	Operational	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5		
Enhance TRACKWOLF Mods													
1-93-07-0009	Operational	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9		
AN/PRD-13 (V) 2 Procurement													
1-97-07-0001	Operational	0.0	0.0	0.0	4.9	8.1	0.0	0.0	0.0	0.0	13.0		
GBCS Upgrades													
1-97-07-0002	Operational	0.0	0.0	0.0	0.0	6.2	12.4	12.8	21.2	0.6	53.2		
Totals		42.9	14.4	1.7	4.9	14.3	12.4	12.8	21.2	0.6	125.2		

* Note: FY96 column reflects FY96 and prior years.

INDIVIDUAL MODIFICATION																																																																																															
										Date	February 1998																																																																																				
MODIFICATION TITLE: SINGGARS Interference Cancellation 1-91-07-0003																																																																																															
MODELS OF SYSTEMS AFFECTED: ANTSQ-138(TRAILBLAZER)																																																																																															
DESCRIPTION / JUSTIFICATION: <p>This Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS) into Intelligence Electronic Warfare (IEW) systems. SINGGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VR-12 family of single channel radios. Fieldings are scheduled to continue through FY98 until all of the Army is converted to SINGGARS. SINGGARS provides effective Electronic Counter-Countermeasures (ECCM) by randomly hopping to preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which requires hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VR-12 series radios being replaced.</p>																																																																																															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 20%; text-align: center;">Planned</td> <td style="width: 40%; text-align: center;">Accomplished</td> </tr> <tr> <td>Inprocess Review/Production Decision</td> <td style="text-align: center;">Sep 93</td> <td style="text-align: center;">Sep 93</td> </tr> <tr> <td>Contract Award for 3 Models</td> <td style="text-align: center;">Mar 94</td> <td style="text-align: center;">Mar 94</td> </tr> <tr> <td>Competitive Production Contract Award</td> <td style="text-align: center;">Jun 96</td> <td style="text-align: center;">Jun 96</td> </tr> <tr> <td>Materiel Fielding Agreement/MWO Field Plan Negotiated</td> <td style="text-align: center;">Feb 98</td> <td></td> </tr> <tr> <td>First Kit Applied</td> <td style="text-align: center;">Oct 97</td> <td></td> </tr> <tr> <td>Last Kit Applied</td> <td style="text-align: center;">Dec 99</td> <td></td> </tr> </table>													Planned	Accomplished	Inprocess Review/Production Decision	Sep 93	Sep 93	Contract Award for 3 Models	Mar 94	Mar 94	Competitive Production Contract Award	Jun 96	Jun 96	Materiel Fielding Agreement/MWO Field Plan Negotiated	Feb 98		First Kit Applied	Oct 97		Last Kit Applied	Dec 99																																																																
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Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																														
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METHOD OF IMPLEMENTATION: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">FY 1997</td> <td style="width: 20%; text-align: center;">Dec 96</td> <td style="width: 20%; text-align: center;">Feb 98</td> <td style="width: 20%; text-align: center;">FY 1998</td> <td style="width: 20%; text-align: center;">FY 1998</td> </tr> <tr> <td>Contract Dates:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Delivery Date:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													FY 1997	Dec 96	Feb 98	FY 1998	FY 1998	Contract Dates:						Delivery Date:																																																																							
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ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 14 Months																																																																																															

INDIVIDUAL MODIFICATION																					
SINGGARS Interference Cancellation 1-91-07-0003																					
MODIFICATION TITLE (Cont):																					
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	10	14.0	27	12.6														37	26.6		
Installation Kits																					
Installation Kits, Nonrecurring Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders		0.1		0.3		0.1															
Data		0.3																			
Training Equipment																					
Support Equipment		2.0		1.5																	
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	3	0.1																10	0.3		
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																		27	1.4		
TC Equip-Kits																					
Total Instalment	3	0.1				34	1.6											37	1.7		
Total Procurement Cost		16.5		14.4		1.7													32.6		

INDIVIDUAL MODIFICATION																																																																																														
										Date	February 1998																																																																																			
MODIFICATION TITLE: TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002																																																																																														
MODELS OF SYSTEMS AFFECTED: Radio Set, Receiving AN/TRQ-32, SSN: V07700																																																																																														
DESCRIPTION / JUSTIFICATION: TEAMMATE Tactical Proficiency Trainer (TM TPT) will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. The TM TPT requirement is documented in Operational Requirements Document dated 7 Dec 92 and is required for systems fielded to active and reserve units. TM TPT will greatly enhance operator proficiency training and is an absolute requirement for TEAMMATE systems fielded to the Regional Training Sites Intelligence - SIGINT (RTSI-S) established for the in garrison training of reserve forces. Concept design includes two Versa Module Euro card (VME) circuit cards with cabling and two Computer Software Configuration Items (CSCI). Operationally, the concept design works by injecting a modulated RF signal into the TEAMMATE's Radio Frequency (RF) Distribution Unit from which simulations are made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TRQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function. TM TPT will reduce admin TDY costs associated with training.																																																																																														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <div style="display: flex; justify-content: space-between;"> <div> Contract Award Date First Production Hardware Delivered Materiel Fielding Agreement/MWO Fielding Plan Negotiated First Kit Applied Last Kit Applied FY97 installation of hardware was accomplished by the contractor fielding team within funds on contract. </div> <div> PLANNED: Dec 93 May 95 May 95 Aug 95 Nov 96 </div> <div> ACCOMPLISHED: Dec 93 Jun 95 May 95 Aug 95 Nov 96 </div> </div>																																																																																														
Installation Schedule: <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td>68</td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td>68</td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>												Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs	68																				Outputs	68																			
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Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																													
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To Complete	To																																																																												
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METHOD OF IMPLEMENTATION: Contract Dates: FY 1997 Delivery Date: FY 1997 ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 12 Months FY 1999 FY 1999																																																																																														

INDIVIDUAL MODIFICATION																			
Date February 1998																			
TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Kit Quantity		71	2.8															71	2.8
Installation Kits			1.7																1.7
Installation Kits, Nonrecurring Equipment																			
Equipment, Nonrecurring			0.2																0.2
Engineering Change Orders			0.6																0.6
Data																			
Training Equipment																			
Support Equipment			0.6																0.6
Other			0.5																0.5
Interim Contractor Support																			
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits		68	0.1	3														71	0.1
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
TC Equip-Kits																			
Total Instalment		68	0.1	3														71	0.1
Total Procurement Cost			6.5																6.5

INDIVIDUAL MODIFICATION										Date	February 1998
MODIFICATION TITLE: Enhanced TRACKWOLF Mods 1-93-07-0009											
MODELS OF SYSTEMS AFFECTED: TRACKWOLF, AN/TSQ-152, SSN: V18200; Enhanced TRACKWOLF, AN/TSQ-199, SSN: V18200											
DESCRIPTION / JUSTIFICATION:											
<p>TRACKWOLF(TW)/ENHANCED TRACKWOLF (ETW) are High Frequency (HF) Skywave Communications Intelligence systems which support Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis Systems. Materiel Changes (MC) will provide National and Army intelligence communities with a collection asset better equipped to meet the requirements of a rapidly changing and highly diverse HF environment. There are a number of enhancements which have been identified to keep the unit abreast of modern technological advances and changing threat. ETW is a congressionally directed program to resolve transportability shortfalls of the original TW system noted after operation DESERT STORM. ETW is housed entirely within transit cases for rapid deployment, ease of set up and tear down, and to allow maximum flexibility of power source selection. Software mods will allow for the automatic detection of the most modern modulations. MC's will provide analytical operators more extensive data base management functionality and improved in-garrison and field reporting capability.</p>											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:											
<p>1. Add ECP 40, SATCOM capability DF Flashnet to TRACKWOLF - INSTALLATION COMPLETE OCT95</p> <p>2.3.4. Add ECP 43 Improved audio recorder, add ECP 41 Squelch control, add ECP 44 Crosshair to TRACKWOLF - INSTALLATION COMPLETE Dec 95.</p> <p>5.6 Add ECP 1 to Enhanced TRACKWOLF (ETW), Communication Satellite Intercept Capability, and add ECP 2 additional workstation positions to ETW - INSTALLATION COMPLETE PLANNED FOR FEB98. Note ETW SATCOM Intercept mod will require minor installation (plug in antenna) that the unit can perform and will not require installation costs in FY98.</p>											
Installation Schedule:											
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Pr Yr											
Totals	1	2	3	4	1	2	3	4	1	2	3
Inputs	5										
Outputs	5				1						
		FY 2002		FY 2003		FY 2004		FY 2005		Totals	
	1	2	3	4	1	2	3	4	1	2	3
Inputs											
Outputs											6
METHOD OF IMPLEMENTATION:											
Contract Dates: FY 1997				ADMINISTRATIVE LEADTIME: FY 1998				PRODUCTION LEADTIME: FY 1999			
Delivery Date: FY 1997								Months			

INDIVIDUAL MODIFICATION														Date		February 1998				
MODIFICATION TITLE (Cont): Enhance TRACKWOLF Mods 1-93-07-0009																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	6	17.6																	6	17.6
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				0.6
Training Equipment																				
Support Equipment																				0.8
Other																				0.5
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	5	0.4																	6	0.4
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation	5	0.4																	6	0.4
Total Procurement Cost		19.9																		19.9

INDIVIDUAL MODIFICATION										Date	February 1998
MODIFICATION TITLE: AN/PRD-13 (V) 2 Procurement 1-97-07-0001											
MODELS OF SYSTEMS AFFECTED: AN/PRD-12 Interim Fix											
DESCRIPTION / JUSTIFICATION:											
<p>The AN/PRD-12 is a man-transportable radio direction finding (DF) system fielded to Army units that performs intercept and line of bearing measurements and provides fix calculations when operating in the netted mode. The Army units rarely use the netting capability of the AN/PRD-12 and it is operationally difficult to establish and bare little influence on mission success. A requirement exists for an organic system to provide threat warning and situational awareness information directly to the supported unit. The system must be modular, very light weight, with minimal power requirements and configurable to support man-pack operations.</p> <p>JUSTIFICATION: The AN/PRD-13(V)2 procurement is an interim fix for the AN/PRD-12. Headquarters Department of the Army has directed the AN/PRD-13 be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The sustainment will be provided by Contractor Logistics Support with the primary vendor. All fielding and training will be accomplished by SOCOM.</p>											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:											
<div style="display: flex; justify-content: space-between;"> <div> Contract Award Date First Production Hardware Delivered Materiel Fielding Agreement/MWO Fielding Plan First Kit Applied Last Kit Applied </div> <div> PLANNED: Oct 98 Oct 99 Jul 99 Oct 99 Oct 00 </div> <div> ACCOMPLISHED: </div> </div>											
Installation Schedule:											
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Pr Yr											
Totals	1	2	3	4	1	2	3	4	1	2	3
Inputs											
Outputs									30	30	30
									30	30	30
		FY 2002		FY 2003		FY 2004		FY 2005		Totals	
	1	2	3	4	1	2	3	4	1	2	3
Inputs											
Outputs											150
											150
METHOD OF IMPLEMENTATION:											
<div style="display: flex; justify-content: space-between;"> <div> Contract Dates: Delivery Date: </div> <div> FY 1997 FY 1997 </div> <div> ADMINISTRATIVE LEADTIME: 12 Months </div> <div> PRODUCTION LEADTIME: FY 1999 Oct 98 FY 1999 Oct 99 </div> </div>											

INDIVIDUAL MODIFICATION																																																																																																								
MODIFICATION TITLE: GBCS Upgrades 1-97-07-0002										Date February 1998																																																																																														
MODELS OF SYSTEMS AFFECTED: GBCS-L LP(U) and FSED GBCS-H																																																																																																								
DESCRIPTION / JUSTIFICATION:																																																																																																								
<p>The GBCS Upgrades modification is to upgrade the six Raytheon E-Systems GBCS-L to the production configuration and to add ECM material change improvements to the three FSED GBCS-H systems.</p>																																																																																																								
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																								
<table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: center;">Planned</td> <td style="width: 10%; text-align: center;">Accomplished</td> <td colspan="12"></td> </tr> <tr> <td>Inprocess Review/Production Decision:</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Jun 99</td> </tr> <tr> <td>Contract Award</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Nov 99</td> </tr> <tr> <td>First Kit Applied</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Nov 02</td> </tr> <tr> <td>Last Kit Applied</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Mar 05</td> </tr> </table>																Planned	Accomplished													Inprocess Review/Production Decision:			Jun 99												Contract Award			Nov 99												First Kit Applied			Nov 02												Last Kit Applied			Mar 05																										
	Planned	Accomplished																																																																																																						
Inprocess Review/Production Decision:			Jun 99																																																																																																					
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Installation Schedule:																																																																																																								
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FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																																								
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	To																																																																																							
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Contract Dates:					FY 1999																																																																																																			
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INDIVIDUAL MODIFICATION														Date		February 1998 /			
MODIFICATION TITLE (Cont):														GBCS Upgrades 1-97-07-0002					
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																			
PROCUREMENT																			
Installation Kits GBCS-H														3	8.0		3	8.0	
Installation Kits GBCS-L									2	11.4	2	11.7	2	12.1			6	35.2	
Installation Kits, Nonrecurring Equipment							5.3											5.3	
Equipment, Nonrecurring Engineering Change Orders																			
Data								0.5		0.3					0.2			0.8	
Training Equipment										0.2					0.2			1.1	
Support Equipment										0.1								0.2	
Other																			
Interim Contractor Support							0.4			0.4					0.5			1.8	
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits																			
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits														2	0.2		2	0.2	
FY 2002 Eqpt -- kits																2	2	0.2	
FY 2003 Eqpt -- kits																5	5	0.4	
TC Equip-Kits																			
Total Installment								6.2		12.4		12.8		2	0.2	7	9	0.8	
Total Procurement Cost																		53.2	

Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No: February 1998

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

Program Elements for Code B Items:

Date:

P-1 Item Nomenclature: CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BKS275)

Other Related Program Elements:

	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qly												
Gross Cost						3.7	3.2	0.4	1.5	5.2	4.5	18.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						3.7	3.2	0.4	1.5	5.2	4.5	18.5
Initial Spares												
Total Proc Cost						3.7	3.2	0.4	1.5	5.2	4.5	18.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The All Source Analysis System (ASAS) Counter Intelligence/Human Intelligence (CI/HUMINT) subsystem is the CI/HUMINT component of the Intelligence and Electronic Warfare (IEW) sub-element of the Army Battle Command System (ABCS). It is a counter intelligence and human intelligence automation system that meets Army tactical CI/HUMINT information collection, investigation, interrogation, operation, document exploitation, and force protection automation requirements. The architecture is built from three sub-elements. The first tier tactical component is the CI/HUMINT Automated Tool Set (CHATS). CHATS operates at the Counter Intelligence Team/Interrogation Prisoner of War (IPW) Team level. The other two major components to the C1/HUMINT Management System architecture are the Counter Intelligence Operations/Interrogation Facility Workstation (OPS/IF WS) for DS/GS MI unit command and control which provides functional interfaces to the All Source Analysis System, and the CI Single-Source Processors (CI SSP) which will operate within the ASAS Analysis and Control Element (ACE). The standard workstation hardware configuration for the CI SSP and the OPS/IF WS will consist of baseline Common Hardware and Software (CHS) components.

JUSTIFICATION: FY99 funding supports the fielding of the remaining CHATS systems to the tactical force, Interim Contractor Support, and Program Management Administrative Support. Procurement prior to FY99 was through supplemental appropriation. The CHATS system provides agents the capability to manage assets and analyze information collected through investigations, interrogations, collection, and document exploitation. With CHATS, CI units may electronically store collected information in a local database, associate information with digital photography, and transmit/receive information over existing military and civilian communications. The CHATS provides these functions primarily with COTS software operating in a laptop computer within a hardened transport case.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)		Weapon System Type:		Date: February 1998		
OPA Cost Elements	ID cd	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
CHATS (AN/PYQ-3(V))										
Project Management Administration										
Interim Contractor Support										
Fielding										
TOTAL										

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature:																	
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
FY99 CHATS AN/PYQ-3 (V)		TBD		TBD		CECOM		Dec-98		Mar-99		90		23		N/A		N/A		Jan-98	
REMARKS: CHATS consists of NDI and COTS equipment purchased through CECOM.																					

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:								ITEMS LESS THAN \$2.0M (TIARA) (BK5278)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Other Related Program Elements:									
Program Elements for Code B Items:			Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7
Initial Spares												
Total Proc Cost	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 This budget line supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP). The AIMP uses capabilities from the Force Integration Masterplan (FIM) to develop decision support aids that facilitate development and display of intelligence force structure, architectures and systems. The FIM is a computer-based system of systems using commercial-off-the-shelf (COTS) software to support PPBES decision making in the Intelligence and Electronic Warfare (IEW) community. The AIMP is a publication mechanism that presents the IEW future vision to Army consumers over Intelink and Intelink-S.

JUSTIFICATION:
 FY99 funds will be used to continue replacing proprietary and obsolete hardware with standard COTS UNIX platforms and software. This provides the potential for interoperability with other UNIX applications, reduces hardware maintenance costs, and provides significantly better processing capability. FY99 funds will also be used to acquire high speed product servers for Intelink & Intelink-S networks making the FIM products available to any Army consumer, world-wide. Hardware and software procured will support Headquarters, Department of the Army, and FIM field support sites at Fort Belvoir, Fort Huachuca, and Fort Monmouth.

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											SHORTSTOP (VA8000)
Code: B											Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	11.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	11.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8
Initial Spares											
Total Proc Cost	11.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8
Flyaway U/C			0.3								
Wpn Sys Proc U/C			.3								

DESCRIPTION: The SHORTSTOP Electronic Protection System (SEPS) is a fully integrated Radio Frequency Countermeasure system which is designed to provide protection for personnel and high value assets against proximity fuzes. There are three configurations of the SHORTSTOP Electronic Protection System: a manpack system, a stand alone system, and a vehicle mounted system. SHORTSTOP will maximize tactical utility and provide protection against indirect fire. SHORTSTOP will be used by Infantry, Engineering, Armor, Field Artillery and Intelligence units to enhance survivability.

JUSTIFICATION: FY97/98 funding is a result of a Congressional plus-up to support an Urgent Requirement to provide SHORTSTOP vehicle mounted systems to Korea.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SHORTSTOP (VA8000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
B					3220	14	230	5070	30	169			
Hardware (SEPS)					815								
Non-Recurring					160	20	8	192	24	8			
Antenna													
Engineering Support Government Contractor					168 80			125					
Data					40			40					
System Test/Evaluation					255			150					
Fielding/Contractor Logistics Support					147			152					
Program Mgmt (Admin)					115			95					
TOTAL					5000			5824					

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years Hardware			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
FY 97			Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Dec-97	Mar-99	14	230	No		
FY98			Condor/Whittaker Electronic Systems, Simi Valley CA	Option	CECOM	Mar-98	Jun-99	30	169	No		
REMARKS:												

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												COUNTERINTELLIGENCE/SECURITY COUNTERMEAS (BL5263)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	1.2	2.0	2.5	1.6	2.3	1.7	2.4	2.4	2.4	0.0	20.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1.2	2.0	2.5	1.6	2.3	1.7	2.4	2.4	2.4	0.0	20.3	
Initial Spares												
Total Proc Cost	1.2	2.0	2.5	1.6	2.3	1.7	2.4	2.4	2.4	0.0	20.3	
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SENTINEL (FAAD GBS) (WKS0053)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	10	24	28	27	23	17	7	8			144	
Gross Cost	7.9	63.7	68.9	59.4	58.2	49.6	36.3	34.0	32.7	189.9	662.5	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.9	63.7	68.9	59.4	58.2	49.6	36.3	34.0	32.7	189.9	662.5	
Initial Spares			3.6	5.3	7.2						18.4	
Total Proc Cost	7.9	63.7	72.5	64.7	65.4	49.6	36.3	34.0	32.7	189.9	680.9	
Flyaway U/C		4.0	2.2	2.0	2.2	2.6	11.2	15.7				
Wpn Sys Proc U/C		6.4	2.5	2.2	2.4	2.8	12.1	17.0				

DESCRIPTION: Sentinel AN/MPQ-64 consists of a radar-based sensor with its prime mover/power, identification friend or foe (IFF), and FAAD Command, Control, and Intelligence (C2I) interfaces. The sensor is an advanced three dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 40 km. The Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360 degree azimuth coverage for acquisition tracking. The Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying, and reporting targets (cruise missiles, and unmanned aerial vehicle, rotary wing and fixed wing aircraft). Targets can be hovering to fast moving, as well as, from nap of the earth to the maximum engagement altitude of Short Range Air Defense (SHORAD) weapons. Very accurate and quick reacting, Sentinel acquires targets sufficiently forward of the Forward Line of Troops to improve SHORAD weapons reaction time and allow engagement at optimum ranges. The Sentinel integrated IFF reduces the potential for fratricide of Army Aviation and Air Force aircraft. Highly mobile and reliable, the Sentinel Anti-Radiation Missile and Electronic Countermeasures resistant performance supports Army Corps and Divisional Air Defense operations across the full spectrum of conflict.

JUSTIFICATION: FY 99 funds provide production hardware for four National Guard units (3-200th ADA, 3-265th ADA, 4-200th ADA, and 2-265th ADA).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A		HARDWARE SENTINEL SYSTEMS	48582	24	2024	52342	28	1869	46564	27	1725	49528	24	2064
		TRAINING	1563			1477						758		
		ENGINEERING CHANGE ORDERS	596			3120			2862			1217		
		P3I												
		SYSTEM TEST & EVALUATION	490			2550			339					
		INTERIM CONTRACTOR SUPPORT	3938			2274			2771			935		
		ENGINEERING SUPPORT												
		LABOR	2582			2064			1742			1613		
		SIMULATIONS	685			950			560			496		
		FIELDING	75			680			1147			833		
		SOFTWARE MAINTENANCE	1459			1149			900			921		
		PROGRAM MGT/ADMIN												
		LABOR IN-HOUSE	886			605			786			755		
		LABOR CONTRACTS	1026			1666			1776			1191		
	Subtotal - PROGRAM MGT/ADMIN	1912			2271			2562			1946			
	TOTAL	61882			68877			59447			58247			
Note: The quantities in the database as reflected on the P40 are incorrect and will be updated to reflect the quantities shown on the the P5.														

Note: The quantities in the database as reflected on the P40 are incorrect and will be updated to reflect the quantities shown on the the P5.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE										
SENTINEL SYSTEMS										
FY 96	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-96	May-97	24	2024	Yes	No	
FY 97	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-97	May-98	28*	1869	Yes	No	
FY 98	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-98	May-99	27	1725	Yes	No	
FY 99	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-99	May-00	24	2064	Yes	No	
REMARKS: *The option awarded in FY 97 procures thirty (30) sensors. The first two sensors will be delivered in May 98 for an FMS Case with the Government of Turkey.										

[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												TARGET LOCATION OBSERVATION SYSTEM (TLOS (K38400))
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	128	121		435	238	261	266	285	266	565	2565	
Gross Cost	0.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4	
Initial Spares												
Total Proc Cost	0.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4	
Flyaway U/C	0.077	0.042		0.049	0.049	0.046	0.044	0.042	0.041	0.040	0.046	
Wpn Sys Proc U/C	0.096	0.055		0.055	0.051	0.048	0.046	0.045	0.044	0.044	0.050	

DESCRIPTION: The K38400, AN/PLQ-8 Target Location Observation System (TLOS) is an active or passive, day or night sight. It is target acquisition system designed to detect threat Optical and Electro-Optical Systems. The TLOS can be used as a covert illuminator and fire direction pointer. The AN/PLQ-8 TLOS is a part of the roll line KA3500 Night Vision Devices until FY99.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PLQ-8 TLOS. The TLOS is the only hand-held device capable of precisely locating threat optical and electro-optical signatures on the battlefield, and its use will greatly enhance U. S. Forces combat effectiveness. The FY99 funds will procure the restructured technology configuration for fielding to the Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

NOTE: AN/PLQ-8 TLOS was restructured in March 1996 in accordance with (IAW) SECDEF guidance. Results of restructure are reflected above.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: TARGET LOCATION OBSERVATION SYSTEM (TLOS (K38400))		Weapon System Type:		Date: February 1998					
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000			
A	AN/PLQ-8 (K38400) TLOS	4025	121	33				19096	435	44	10446	238	44
	Government Engineering Support	629			523								
	Program Management Support	114			114								
	Fielding	256			180								
	Contractor Engineering Support	274			221								
	Engineering Change Orders	184			148								
	Data/Tech Pubs	70											
	Interim Contractor Support	919											
	Testing	180			1123								
	TOTAL	6651			2309								

*FY97 funding was reduced by \$11.552M based on reprogramming action in FY97. Within the parent SSN KA3500, \$115K was moved to the baby SSN K30800 and \$11.437M \$11.347M was moved to SSN K36400.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
Contractor and Location			Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
AN/PLQ-8 TLOS FY96			Lockheed/Martin, Manchester, NH TBS TBS	Option	CECOM	Mar-96	Sep-98	121	33	Yes	No	
AN/PLQ-8 ETLOS FY98				C/FP	CECOM	Mar-98	Apr-99	435	44			
AN/PLQ-8 ETLOS FY99				Option	CECOM	Mar-99	Apr-00	238	44			
REMARKS: AN/PLQ-8 TLOS Program was restructured in March 1996 IAW SECDEF Guidance. Results of restructure are reflected above. ETLOS represents the restructured program and is referred to as the Enhanced TLOS. The FY 1997 procurement funds were internally reprogrammed with the concurrence of the user and HQDA to K36400 and K30800.												

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											NIGHT VISION DEVICES (KA3500)
Code:											Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	1187.5	41.2	51.7	100.6	29.6	39.8	36.9	45.1	44.4	622.8	2241.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	1187.5	41.2	51.7	100.6	29.6	39.8	36.9	45.1	44.4	622.8	2241.8
Initial Spares		2.3	2.9	2.7	5.0	3.1	3.1	3.0	3.0	31.5	64.8
Total Proc Cost	1187.5	43.5	54.6	103.2	34.6	42.9	40.0	48.1	47.5	654.3	2306.6
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: Night Vision Devices (KA3500) is a summary budget line. There are five subsidiary lines which are: K36400 Night Vision, AN/PVS-7/14 AID; B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS); K41500 AN/PVS-10 Sniper Night Sight (SNS); K35000 AN/PAQ-4 Infrared Aiming Light (IAL); K30400, HTI Training Devices. (1): The AN/PVS-7 is a lightweight, Night Vision Goggle consisting of a monocular Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device is a variant of the AN/PVS-7 in that it has only a single lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. (2) The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability. (3) The AN/PVS-10 SNS is an NDI day/night sight specifically procured for M24 Sniper Weapon to replace the Leopold day sight. (4) The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. (5) The K30400 Horizontal Technology Integration Second Generation Forward Looking Infrared (HTI SGF) (FLIR) will incorporate common second generation FLIR technology into critical, high priority combat platforms. It will enable the Army to insert key technology into the highest priority forces, e.g. M1A2 SEP Abrams, M2A3/M3A3 Bradley Fighting Vehicle System and Long Range Advanced Scout Surveillance System (LRAS3). Through FY99, this roll line also includes K22900 AN/PAS-13 Thermal Weapon Sight (TWS), K38400 AN/PLQ-8 Target Location and Observation System (TLOS), K38300 Long Range Advanced Scout Surveillance System (LRAS3), and K30800 AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS).

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY99 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: NIGHT VISION DEVICES (KA3500)				Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
OPA Cost Elements		\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	\$000
NIGHT VISION, AN/PVS-6 MELIOS					464	22							
NIGHT VISION, AN/PVS-7 AID				3	83279	30179	9842	36902	29636	4	7914		4
SNIPER NIGHT SIGHT					6500	1064							
INFRARED AIMING LIGHT, AN/PAQ-4					11050	20847	5000	5339		1			
HORIZONTAL INTEGRATION - 2D GEN FLIR		4568											
*FY97 was adjusted by an increase of \$11.437M that was moved within this parent SSN KA3500 (ie. from baby SSN K38400 to baby SSN K36400). In addition, HQDA reprogrammed \$1.178M from this SSN to a higher Army priority. The database will be corrected to reflect these FY97 adjustments.													
TOTAL		51668				110829						29636	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											NIGHT VISION, AN/PVS-6 MELIOS (B53800)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	8005			464								8469
Gross Cost	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5
Initial Spares												
Total Proc Cost	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5
Flyaway U/C	0.010			0.018								0.010
Wpn Sys Proc U/C	0.010			0.022								0.011

DESCRIPTION: B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS). The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability.

JUSTIFICATION: No FY99 Funds.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-6 MELIOS (B53800)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		AN/PVS-6 MELIOS				8447	464	18						
		Ancillary Equipment for fielded MELIOS				1553								
		TOTAL				10000								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years AN/PVS-6 MELIOS FY 97			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
			Litton Laser, Apopka, FL	Option	CECOM	Dec-96	Dec-97	464	18	Yes		
REMARKS:												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No:												P-1 Item Nonrenewable:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												NIGHT VISION, AN/PVS-7 AID (K36400)		
Program Elements for Code B Items:												Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	98063		11338	30179	6740	8086	9274	8415	10583	10506	79627	272831		
Gross Cost	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6		
Initial Spares														
Total Proc Cost	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6		
Flyaway U/C	0.006	0.004	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.005	0.004		
Wpn Sys Proc U/C	0.007	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.005		
<p>DESCRIPTION: K36400 Night Vision, AN/PVS-7 AID; The AN/PVS-7 is a lightweight, Night Vision Goggle consisting of a monocular Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device (MNVD) is a variant of the AN/PVS-7 in that it has only a single Eyepiece Lens Assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. The 25mm Third Generation Image Intensifier tube is a direct replacement for the second generation Image Intensifier tube.</p> <p>JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY99 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).</p>														

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		AN/PVS-7 Night Vision Goggle*	35000	11338	3	78515	30179	3	26606	7842	3	26829	7914	3
		25MM GEN III Image Tubes	8000	3374	2				6000	2000	3			
		Government Engineering Support	955			1022			907			425		
		Project Management Admin	235			345			485			224		
		Fielding	1817			1728			1763			1740		
		Contractor Engineering Support	611			1156			858			329		
		ECO	204			204			144			27		
		Data/Tech Pubs	154			199			79			42		
		Testing	124			110			60			20		
		TOTAL	47100			83279			36902			29636		

*FY96 includes Title XI funds from USANG of \$4.877M which were properly programmed under this parent SSN (KA3500) KA3500 but incorrectly reflected in RDAISA under the baby SSN K41500.

*FY97 includes \$11.437M that was moved in FY97 within this parent SSN KA3500 from baby SSN K38400 to K36400. The database will be updated to reflect that action.

*FY98 congressional plus-up funds are included in the database but database quantity needs to be updated accordingly as reflected on this P-5.

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)							
WBS Cost Elements: Fiscal Years			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PVS-7 Night Vision Goggle*												
FY 96			ITT, Roanoke, VA	C/FPM-2(1)	CECOM	Feb-96	Mar-97	1138	3	Yes		
FY96*			ITT, Roanoke, VA	C/FPM-5(5)	CECOM	Mar-96	Aug-98	Var	3			
FY96*			Litton, Tempe, AZ	C/FPM-5(5)	CECOM	Mar-96	Jun-98	Var	3			
FY 97			ITT, Roanoke, VA	C/FPM-2(2)	CECOM	Apr-97	Mar-98	30179	3			
FY 98			TBS	C/FPM-2(1)	CECOM	Mar-98	Apr-99	7842	3			
FY 99			TBS	C/FPM-2(2)	CECOM	Feb-99	Jan-00	7914	3			
25MM GEN III Image Tubes												
FY 96			ITT, Roanoke, VA	Option	CECOM	Mar-96	Mar-97	3374	2	Yes		
FY98			TBS	C/FPM-2(1)	CECOM	Mar-98	Apr-99	2000	3			

REMARKS: * Along with quantities for various customers, these FY96 procurements include Title XI funds programmed in this SSN for a quantity of 1185 as requested/funded by the USANG.

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K38400)										Date: February 1998																																																																																																																																																																																																																																																																																																																		
COST ELEMENTS										Fiscal Year 98										Fiscal Year 99																																																																																																																																																																																																																																																																																																																		
M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	O N C O T	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SNIPER NIGHT SIGHT (K41500)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	650	403		1064								2117	
Gross Cost	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	
Initial Spares													
Total Proc Cost	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	
Flyaway U/C	0.007	0.006		0.006								0.006	
Wpn Sys Proc U/C	0.007	0.007		0.006								0.007	

DESCRIPTION: K41500 AN/PVS-10 Sniper Night Sight (SNS) The AN/PVS-10 SNS is an NDI day/night sight specifically procured for M24 Sniper Weapon to replace the Leopold day sight.

JUSTIFICATION: No planned program in FY99.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SNIPER NIGHT SIGHT (K41500)			Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99			
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000
	A	AN/PVS-10 SNS Hardware				6197	1064					
		FIELDING				303						
		TOTAL				6500						
* FY96 Title XI USANG funding of \$4.877M was reprogrammed in FY96 under this parent SSN KA3500 but is incorrectly reflected in the database under its baby SSN K41500 vice K35400.												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SNIPER NIGHT SIGHT (K41500)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PVS-10 SNS Hardware FY 97	Litton, Garland, TX	Option	CECOM	Apr-97	Mar-98	1064	6	Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:								INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:										
Program Elements for Code B Items:		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	18080			20847	5000							43927
Gross Cost	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Initial Spares												
Total Proc Cost	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Flyaway U/C	0.001			0.001	0.001							0.001
Wpn Sys Proc U/C	0.001			0.001	0.001							0.001

DESCRIPTION: K35000 AN/PAQ-4 Infrared Aiming Light (IAL); The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. This SSN also includes the AN/PEQ-2A Infrared Target Pointer/Infrared Aiming Light, a device originally developed for the U. S. Navy. The AN/PEQ-2A program is managed by the Army.

JUSTIFICATION: No planned program in FY99.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		AN/PAQ-4 Infrared Aiming Light (IAL)				6050	19210							
	A	AN/PEQ-2A Infrared Target Pointer/IAL				5000	5100	1	5339	5000				
		TOTAL				11050			5339					
		NOTE: FY97 UNIT COST FOR AN/PAQ-4 IS \$263												
		Note: In FY97, HQDA reprogrammed \$1.178M from this program. Database will be corrected to reflect that action.												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature:						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PAQ-4 Infrared Aiming Light (IAL) FY 97		Insight Technology, Nashua, NH	C/Option	CECOM	May-97	Feb-98	19210		Yes		
AN/PEQ-2A Infrared Target Pointer/IAL FY 97 FY 98		Insight Technology, Nashua, NH TBS	C/Option C/IDIQ	CECOM CECOM	Sep-97 May-98	Feb-98 Jul-98	5100 5000	1 1	Yes		
REMARKS: The Unit Price for the AN/PAQ-4 is approximately \$263. The procurement of the AN/PEQ-2A is consistent with Congressional direction.											

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Exhibit P-21, Production Schedule

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		48	82	94	90	110	145	44	48	48	878	1587	
Gross Cost	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Initial Spares													
Total Proc Cost	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Flyaway U/C		0.038	0.026	0.026	0.031	0.026	0.024	0.024	0.024	0.024	0.025	0.026	
Wpn Sys Proc U/C		0.046	0.029	0.029	0.048	0.031	0.028	0.029	0.030	0.031	0.030	0.030	

DESCRIPTION: K30800, AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS) is a system designed to capture and transmit still video images through military radios. The images are captured with a portable AN/PVH-1 LVRS Out Station which transmits the captured image to the AN/PVH-2 LVRS Base Station for analysis and dissemination. This system is a part of roll line KA3500 Night Vision Devices until FY99.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVH-1&2 LVRS. The LVRS provides the first day/night image transmission capability between ground scouts and their higher headquarters, facilitating rapid target identification and analysis of key structures/terrain and other data critical to mission planning/execution. The FY99 funds will procure this LVRS capability for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
AN/PVH-1&2 LVRS	A	1984	82	24	2392	94	25	2872	90
Government Engineering Support		160			90			327	
Project Management Support		210			222			22	
Fielding/CLS								322	
Upgrade Out Stations								793	
Total		2354			2704			4336	
NOTE: The unit cost represents a composite composite rate that is determined by the mix of base stations and out stations in the total quantity. Note: FY97 amount of \$2.704M includes an increase of \$115K that was reprogrammed from by the PEO in FY97 from SSN K38400. The database will be updated to reflect that action.									
								2830	110
								213	
								25	
								296	
								3364	
									26

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PVH-1&2 LVRS										
FY 96	Phototelesis, San Antonio, TX	Option	CECOM	Jul-96	Feb-97	82	24	Yes	No	
FY 97	Phototelesis, San Antonio, TX	Option	CECOM	Sep-97	Feb-98	94	25			
FY 98	Phototelesis, San Antonio, TX	Option	CECOM	Mar-98	Dec-98	90	32			
FY 99	Phototelesis, San Antonio, TX	Option	CECOM	Dec-98	Aug-99	110	26			
REMARKS:										

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MFR		
Number	1	
	INITIAL	95
	REORDER	98
	INITIAL	
	REORDER	
	INITIAL	
	REORDER	
	INITIAL	
	REORDER	
	INITIAL	
	REORDER	

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Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:										Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998	
P-1 Item Nomenclature:										NIGHT VISION, THERMAL WPN SIGHT (K22800)	
Program Elements for Code B Items:										Other Related Program Elements:	
Code:										Code:	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	483	717	1650	1413	1522	1727	1758	1552	1640	21600	34062
Gross Cost	23.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	369.9	692.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	369.9	692.6
Initial Spares											
Total Proc Cost	0.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	369.9	692.6
Flyaway U/C		0.047	0.030	0.025	0.022	0.022	0.019	0.019	0.019	0.016	0.019
Wpn Sys Proc U/C		0.047	0.032	0.026	0.024	0.024	0.021	0.021	0.021	0.018	0.020

DESCRIPTION: K22900, AN/PAS-13 Thermal Weapon Sight (TWS) is a part of the roll line KA3500 Night Vision Devices until FY99. The AN/PAS-13 is a multi-purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operation capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscurants and in extremely low light levels such as under triple canopy jungle.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PAS-13 TWS. The TWS is also a key component of Land Warrior, a designated digitized division/corps asset. The FY99 funds will procure TWS systems with the latest technology for fielding to the Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)										
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/PAS-13 Thermal Weapon Sight (TWS)		Hughes, El Segundo, CA		C/Option		CECOM		May-96	Aug-97	717	25	Yes		
FY 96		Hughes, El Segundo, CA		SS/FP		CECOM		Apr-97	Aug-98	1650	26			
FY 97		TBS		C/FPM-3(1)		CECOM		Apr-98	Aug-99	1660	22			
FY 98		TBS		C/FPM-3(2)		CECOM		Mar-99	Jun-00	1512	21			
FY 99														
REMARKS:														

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ARTILLERY ACCURACY EQUIP (AD3200)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	124.3	9.4	11.7	4.5	11.0	4.3	5.9	0.0	0.0	0.0	175.5	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.3	9.4	11.7	4.5	11.0	4.3	5.9	0.0	0.0	0.0	175.5	
Initial Spares												
Total Proc Cost	124.3	9.4	11.7	4.5	11.0	4.3	5.9	0.0	0.0	0.0	175.5	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System (K27800) and Artillery Muzzle Velocity System (AD3250).

JUSTIFICATION: The FY99 funds support fielded units and readiness requirements with conventional and Paladin versions of the Muzzle Velocity System (MVS), and the Meteorological Measuring System (MMS), providing field artillery weather data.

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											METEOROLOGICAL MEASURING SYS (K27800)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	107		20			7		7				141
Gross Cost	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7
Initial Spares												
Total Proc Cost	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, provides high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements data to 30KM. The Meteorological Hydrogen Generator (MHG) generates hydrogen and diverts gas to a storage tank for later use; provides up to 6 hours of continuous operation. It is environmentally safe and needs only one operator.

JUSTIFICATION: The FY99 procurement supports fielded units and readiness requirements for the Meteorological Measuring System (MMS), providing field artillery weather data to the active Army.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)				Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware MMS GPS Upgrades	A	3525	20	176							4815	9	535
2. Testing		210									88		
3. Engineering Support - Contractor Support - In House Support		275 870									134 418		
4. Fielding		1718									891		
5. Program Management Admin		272									254		
TOTAL		6870									6600		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
1. Hardware											
FY 96	ETG, Baltimore, MD	C/OPTION	CECOM	Aug-96	Jul-97	20	176	Yes	No		
FY 99	ETG, Baltimore, MD	C/OPTION	CECOM	Oct-98	Jul-99	9	535	Yes	No		
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									ARTY MUZZLE VELOCITY SYSTEM (AD3250)		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8		
Initial Spares													
Total Proc Cost	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8		
Flwyway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and training, together with the production hardware for fielding and additional related hardware, Muzzle Velocity Communications Adapters (MCA).

JUSTIFICATION: The FY99 procurement supports fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1.	A	4479	398	11	4343	358	12	4185	287
2.		266			147			205	
3.		31			29			149	
4.		9			4				
5.		25			25			14	
6.		1			1				
TOTAL		4811			4549			4415	4404

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)		
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date	
Fiscal Years									
Conventional *		RSI Electronics Poughkeepsie, NY		CIFFPM-5(3) CIFFPM-5(4) CIFFPM-5(5) CIFFPM-5(6) CIFFPM-5(1)		ACALA		May-96 Apr-97 Mar-98 Mar-98 Mar-99	
FY 96								May-96	
FY 97								Apr-97	
FY97								Mar-98	
FY 98								Mar-98	
FY 99								Mar-99	
Conventional - Option *		RSI Electronics Poughkeepsie, NY		Option Option Option		ACALA		May-96 Apr-97 Mar-98	
FY 96								May-96	
FY 97								Apr-97	
FY 98								Mar-98	
Paladin *		RSI Electronics Poughkeepsie, NY		CIFFPM-5(3) CIFFPM-5(4) CIFFPM-5(5)		ACALA		May-96 Apr-97 Mar-98	
FY 96								May-96	
FY 97								Apr-97	
FY 98								Mar-98	
Paladin - Option *		RSI Electronics Poughkeepsie, NY		Option Option		ACALA		May-96 Apr-97	
FY 96								May-96	
FY 97								Apr-97	
REMARKS: * Contract award includes both the Conventional and Paladin.									

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Initial Spares													
Total Proc Cost	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the FIREFINDER radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The FIREFINDER equipment is designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons. The FIREFINDER radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy field artillery with sufficient accuracy to permit rapid engagement with counterfire. The FIREFINDER radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) HMMWVs making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATQ). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate long range artillery and rockets.

JUSTIFICATION: FY99 funding completes the installation of the AN/TPQ-36(V)8 Electronics Upgrade modification kits procured in FY96 and FY97. FY99 also initiates procurement of the Fire Support Digitization hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s to allow AFATDS connectivity and provide Joint Technical Architecture (JTA)-Army compliance.

Exhibit P-40M Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.			Date		February 1998							
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Item Nomenclature		MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)							
Program Elements for Code B Items			Code		Other Related Program Elements							
Description			Fiscal Years = Prior									
OSIP NO.	Classification		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
AN/TPQ-36(V)8 Electronic Upgrade												
1-90-07-0016	Unclassified		63.5	15.4	1.2	1.2	3.3	1.0	36.2	40.6	0.0	162.4
AN/TPQ-37(V)7 ATG Mobility Improvement												
1-92-07-0027	Unclassified		4.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I												
1-93-07-0001	Unclassified		26.5	0.4	0.0	0.0	0.0	0.0	4.7	0.5	0.0	32.1
Fire Support Digitization												
1-95-07-XXXX	Unclassified		0.0	0.0	0.0	4.3	1.8	0.0	0.0	0.0	0.0	6.1
Totals			94.1	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	205.0

* NOTE: FY96: reflects prior years

INDIVIDUAL MODIFICATION																																																																																																																																																																																																																																			
MODIFICATION TITLE: AN/TPQ-36(V)8 Electronics Upgrade 1-90-07-0016													Date	February 1998																																																																																																																																																																																																																					
MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5 and AN/TPQ-36(V)7 HMMWV Radar																																																																																																																																																																																																																																			
DESCRIPTION / JUSTIFICATION:																																																																																																																																																																																																																																			
<p>The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, separate Brigades, and rapid deployment task forces. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&S) savings over twenty years.</p> <p>FY99 funding completes the installation of the modification kits procured in FY96/97. FY02/03 funding will procure an additional fifty-five (55) modification kits to complete the Army AAO.</p>																																																																																																																																																																																																																																			
<p>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</p> <p>Milestone III was approved in 3QFY96. Full Rate Production contract for eleven (11) modification kits was awarded in 4QFY96. An option for an additional eleven (11) kits was awarded in 2QFY97. Initial Operational Capability (IOC) is scheduled for 3QFY98. Contract award to procure additional modification kits is scheduled for 2QFY02.</p>																																																																																																																																																																																																																																			
<p>Installation Schedule:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="3">FY 1997</th> <th colspan="3">FY 1998</th> <th colspan="3">FY 1999</th> <th colspan="3">FY 2000</th> <th colspan="3">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th> <th>4</th><th>1</th><th>2</th> <th>3</th><th>4</th><th>1</th><th>2</th><th>3</th> <th>4</th><th>1</th><th>2</th><th>3</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td> </tr> <tr> <td></td> <td>8</td><td></td><td></td><td></td> <td>5</td><td>6</td><td>5</td><td>6</td> <td>6</td><td>5</td><td>6</td><td></td> <td></td><td></td><td></td> </tr> <tr> <td></td> <td>8</td><td></td><td></td><td></td> <td>5</td><td>6</td><td>5</td><td>6</td> <td>6</td><td>5</td><td>6</td><td></td> <td></td><td></td><td></td> </tr> </tbody> </table> <p>*Eight (8) LRIP Units installed at contractor's facility prior to delivery</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">FY 2002</th> <th colspan="3">FY 2003</th> <th colspan="3">FY 2004</th> <th colspan="3">FY 2005</th> <th rowspan="2">To</th> <th rowspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th> <th>4</th><th>1</th><th>2</th> <th>3</th><th>4</th><th>1</th><th>2</th><th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>Complete</td> <td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td> <td>12</td><td>12</td><td>18</td><td>13</td> <td></td><td></td><td></td><td></td> <td></td><td>85</td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td> <td>6</td><td>12</td><td>18</td><td>19</td> <td></td><td></td><td></td><td></td> <td></td><td>85</td> </tr> </tbody> </table>															Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	Inputs																Outputs																Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3		8				5	6	5	6	6	5	6						8				5	6	5	6	6	5	6						FY 2002			FY 2003			FY 2004			FY 2005			To	Totals	1	2	3	4	1	2	3	4	1	2	3	4	Inputs															Outputs															Totals	1	2	3	4	1	2	3	4	1	2	3	4	Complete							12	12	18	13						85						6	12	18	19						85
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<p>METHOD OF IMPLEMENTATION: FRP-Depot</p> <p>Contract Dates: FY 1997 Jan-97</p> <p>Delivery Date: FY 1997 Apr-98</p> <p>ADMINISTRATIVE LEADTIME: FY 1998 N/A</p> <p>PRODUCTION LEADTIME: FY 1999 N/A</p> <p>15 Months</p>																																																																																																																																																																																																																																			

INDIVIDUAL MODIFICATION																													
MODIFICATION TITLE: AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027										Date	February 1998																		
MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 and (V)6																													
DESCRIPTION / JUSTIFICATION:																													
<p>This Materiel Change (MC) was initiated in response to mobility problems encountered during Operation Desert Storm. These problems included excessive wear of trailer tires, difficulty in moving the trailer through sand, and improper tracking of the trailer behind the assigned prime mover. The Antenna Transceiver Group (ATG) Mobility Improvement Program will apply the Medium Tracked Suspension System (MTSS), produced by Caterpillar, to the M-1048 trailer carrying the AN/TPQ-37 ATG. Testing demonstrated that application of the MTSS provides a wider footprint for the M-1048 trailer which improves trailer mobility in off-road use and does not degrade performance on paved surfaces at highway speeds.</p>																													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																													
<p>Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 4QFY94. First article testing was completed in 1QFY96. Application/fielding of modification kits began in 2QFY96 and was completed during 1QFY98.</p>																													
Installation Schedule:																													
Inputs Outputs	Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001															
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
	17	2	3	3	4	4	2	2	2	2	2	2	2	2	2	2	2	2											
Inputs Outputs	Totals	1	2	3	4	FY 2002			FY 2003			FY 2004			FY 2005			To	Complete	Months									
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	26	26	26						
	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26						
METHOD OF IMPLEMENTATION:												Depot	ADMINISTRATIVE LEADTIME:												Months	PRODUCTION LEADTIME:		Months	
Contract Dates:												FY 1997	N/A	FY 1998												N/A	FY 1999		N/A
Delivery Date:												FY 1997	N/A	FY 1998												N/A	FY 1999		N/A

INDIVIDUAL MODIFICATION													
AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027													
Date February 1998													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E													
PROCUREMENT													
Kit Quantity	26												26
Installation Kits													
Installation Kits, Nonrecurring													
Equipment		1.4											1.4
Equipment, Nonrecurring		1.2											1.2
Engineering Change Orders													
Data		0.1											0.1
Training Equipment													
Engineering Support		0.9		0.1									1.0
Other													
PM Admin		0.2											0.2
Fielding													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits	17	0.3	9	0.2									26
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation	17	0.3	9	0.2									26
Total Procurement Cost		4.1		0.3									4.4

INDIVIDUAL MODIFICATION													
MODIFICATION TITLE: AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001													
MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 AND (V)6													
DESCRIPTION / JUSTIFICATION: <p>This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability, Availability, Maintainability (RAM), transportability, mobility and interoperability of the system through FY05. The effort will design, retrofit, and qualify modifications to the system as follows: upgrade the cooling system, and provide for transportability by a C130/141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36(V)7 Operations Control Group (OCG) on the M-1097.</p> <p>Funding in FY02 will procure an additional eight (8) modification kits.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <p>Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 3QFY94. First article testing was completed in 1QFY96. Application/fielding of modification kits began in 2QFY96 and was completed during 1QFY98. Contract award to procure additional modification kits is scheduled for 2QFY02.</p>													
Installation Schedule:													
Inputs Outputs	Pr Yr	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4
	17	2	3	3	4	4	2	2	2	2	2	2	2
Inputs Outputs	Totals	1	2	3	4	1	2	3	4	1	2	3	4
	17	2	3	3	4	4	2	2	2	2	2	2	2
	17	2	3	3	4	4	2	2	2	2	2	2	2
Inputs Outputs	Totals	FY 2002		FY 2003		FY 2004		FY 2005		To	Complete	Totals	
	1	2	3	4	1	2	3	4	1	2	3	4	
	34	3	4	4	4	4	4	4	4	4	4	4	
METHOD OF IMPLEMENTATION: Depot													
Contract Dates: FY 1997 N/A													
Delivery Date: FY 1997 N/A													
ADMINISTRATIVE LEADTIME: Months													
PRODUCTION LEADTIME: 15 Months													
FY 1999 N/A													
FY 1999 N/A													

INDIVIDUAL MODIFICATION													
Date February 1998													
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity	26												34
Installation Kits, Nonrecurring Equipment		10.5											14.9
Equipment, Nonrecurring		11.5											11.5
Engineering Change Orders		2.2											2.2
Data													
Training Equipment													
Engineering Support		0.7		0.1								0.1	1.0
Test												0.2	0.2
PM Admin		1.1											1.1
Fielding													
Interim Contractor Support													
Pre-Mod Depot Maint													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits	17	0.5	9	0.3									26
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													8
Total Installation	17	0.5	9	0.3									34
Total Procurement Cost		26.5		0.4						4.7			32.1

INDIVIDUAL MODIFICATION														
Date												February 1998		
MODIFICATION TITLE: Fire Support Digitization 1-95-07-XXXX														
MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5/7 and AN/TPQ-37(V)8														
DESCRIPTION / JUSTIFICATION: This upgrade will effect the FIREFINDER Operations Control Group (OCG) and will incorporate hardware and software to allow AFATDS connectivity and will provide JTA-Army compliance. The hardware required will be a Lightweight Computer Unit (LCU) and TACFIRE Control Interface Module (TCIM). FY 99 funding will initiate procurement of the hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s.														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: A Milestone Decision and Contract Award are scheduled for 1QFY99. First Article Testing and Delivery are planned for 4QFY99.														
Installation Schedule:														
Inputs Outputs		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		Totals		
		1	2	3	4	1	2	3	4	1	2			
Totals														
Inputs Outputs		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		Totals		
		1	2	3	4	1	2	3	4	1	2			
Totals														
METHOD OF IMPLEMENTATION: Depot														
Contract Dates: FY 1997														
Delivery Date: FY 1998														
ADMINISTRATIVE LEADTIME: 3 Months														
PRODUCTION LEADTIME: 6 Months														
Contract Dates: FY 1999 1QFY99														
Delivery Date: FY 1999 4QFY99														

INDIVIDUAL MODIFICATION													
Fire Support Digitization 1-95-07-XXXX													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits													
Installation Kits, Nonrecurring													
Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													
Training Equipment													
Support Equipment													
Engineering Support													
PM Admin													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment													
Total Procurement Cost													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												COMPUTER BALLISTICS; XM-30 (K99200)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: B													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			210	232								442	
Gross Cost	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Initial Spares													
Total Proc Cost	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The Mortar Ballistic Computer (MBC) calculates ballistics trajectories and gives the mortar user data to elevate gun, set charge, and direct fire for all mortar rounds. The MBC uses state of the art technology to provide digital message capability and mortar firing computations. The MBC will interface with other command and control communication devices to improve required response time and first round accuracy for mortar fire. It incorporates ADA software and is operationally compatible with forward entry device. The hardware is a ruggedized hand held computer which weighs less than six pounds (8.9 Lbs with case, carrying straps and 72-hour batteries).

JUSTIFICATION:
The current M23 MBC is not supportable in the field due to repair and components no longer being available/procureable. Also, the memory capacity of the current M23 MBC does not support projected mortar ammunition items in inventory. The improved MBC will be capable of accepting software upgrades electronically, thus reducing the time and cost currently required to apply software upgrades via a hardware change to each fielded unit. The FY2000 program funds a pre-planned product improvement to bring the M30 into compliance with the Army Technical Architecture (ATA) standard.

Ident Code: B, TC-LP MAR96; TDP Avail - FEB97; TC STD JUN98

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: COMPUTER BALLISTICS; XM-30 (K99200)		Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
B	1. COMPUTER	3041	210	14	3436	232	15		
	2. INTEGRATED LOGISTICS SUPPORT	150			293				
	3. GOV'T ENGINEERING SUPPORT	487			745				
	4. FIELDING				466				
	5. FIRST ARTICLE/PDN QUAL TEST	546			885				
	6. SOFTWARE UPGRADE				951				
	7. FOLLOW-ON TEST & EVAL	603							
	Total	4827			6776				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: COMPUTER BALLISTICS; XM-30 (K99200)																	
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
1. COMPUTER FY 96 FY 97		GTE, Taunton, MA GTE, Taunton, MA		Option Option		CECOM CECOM		Dec-96 Apr-97		Aug-97 Jan-98		210 232		14 15		Yes Yes		N/A N/A			
REMARKS: GTE contract with PM Common Hardware/Software Systems awarded Jul 95. Award of FY96 delivery order delayed by PM CH/SS until completion of First Article Test. Common hardware computers will be shipped to Tobyhanna Army Depot for software loading, before delivery to field units.																					

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	5	13	5	2	5						30	
Gross Cost	3.8	7.0	3.1	1.3	4.9	8.6					36.2	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3.8	7.0	3.1	1.3	4.9	8.6					36.2	
Initial Spares												
Total Proc Cost	3.8	7.0	3.1	1.3	4.9	8.6					36.2	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-Furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3. IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). Standard Integrated Command Post Shelters (SICPS) mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV) (heavy) house the IMETS. Each IMETS is configured identically and is capable of performing the following functions: (1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; weather radar; artillery meteorology sections (ARTYMET); theater forecast units (TFUs) and USAF Global Weather Central; (2) process and display weather information, display weather radar data, display weather satellite data and imagery, and generate Tactical Decision Aids; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using High Frequency receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned.

JUSTIFICATION:

FY99 funding supports the procurement and fielding of the five Block II IMETS to Force Package 1 & 2 units. IMETS is the first link in providing the most accurate and current weather information and weather effects, therefore supporting the concept of a near all weather operational capability.

0 OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)				Weapon System Type:		Date: February 1998				
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each							
1. Hardware - CHS-2 V1 High Capacity Computer Unit - CHS-2 V1 Software - CHS-2 V2 High Capacity Computer Unit - CHS-2 V2 Software - CHS-2 V2 Ultra Capacity Computer Unit - CHS-2V2 Ultra Software - CHS-2 Software Maintenance - Tactical Comm. Interface Module (TCIM)	A	192 71 980 93	6 28	32 12 35 42	32 10	1 10	32 35	32 35	152 13	4	38	390 30 25 30	10	39	390 30 25 30	10 5
2. Project Management Administration		525							133			160				
3. Engineering Support		4121							838			3534				
4. Interim Contractor Support		420							120			240				
5. Fielding		960							68			481				
TOTAL		7463							1338			4890				

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY96 CHS-2 V1 CHS-2 V2 CHS-2 TCIM		GTE, Taunton, MA GTE, Taunton, MA SAIC, San Diego, ca		C/Option C/Option C/Option	CECOM CECOM CECOM	Dec-95 Dec-95 Dec-95	Jul-96 Jul-96 Jul-96	6 28 13	32 35 6	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
FY97 CHS-2 V1 CHS-2 V2 CHS-2 TCIM		GTE, Taunton, MA GTE, Taunton, MA SAIC, San Diego, ca		C/Option C/Option C/Option	CECOM CECOM CECOM	Dec-96 Dec-96 Dec-96	Jul-97 Jul-97 Jul-97	1 10 5	32 35 6	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
FY 98 CHS -2 V2 HCU CHS-2 TCIM		GTE, Taunton, MA SAIC, San Diego, ca		C/Option C/Option	CECOM CECOM	Dec-97 Dec-97	May-98 May-98	4 2	38 6	N/A N/A	N/A N/A	N/A N/A
FY99 CHS-2 V2 UCU CHS-2 TCIM		GTE, Taunton, MA SAIC, San Diego, ca		C/Option C/Option	CECOM CECOM	Dec-98 Dec-98	Jul-99 Jul-99	10 5	39 6	N/A N/A	N/A N/A	N/A N/A
REMARKS:											All IMETS equipment and software is NDI/COTS purchased through the PM CHS or other Army activities.	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		TACTICAL OPERATIONS CENTERS (B239865)										
Program Elements for Code B Items:		Code:	Other Related Program Elements:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost						26.7	28.7	27.6	36.3	27.4		146.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						26.7	28.7	27.6	36.3	27.4		146.6
Initial Spares												
Total Proc Cost						26.7	28.7	27.6	36.3	27.4		146.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Army Tactical Operations Centers (TOCs) are the automated facilities where commanders will plan, control, maintain situational awareness, and execute battle command. For the Digitized Army, TOCs will incorporate Army Battle Command Systems (ABCS), five Army Tactical Command and Control Systems (ATCCS) systems, and Force XXI Battle Command - Brigade and Below (FBCB2) providing the framework for the digitized battlefield, fully integrate and digitally link Battlefield Operating Systems (BOSs); and meet the requirements mandated by the Army Technical Architecture (ATA) and the Defense Information Infrastructure (DII) Common Operating Environment (COE). A standard/common TOC operational architecture and system architecture tailored to the echelon of command and mission area will be developed to assure interoperability and commonality.

JUSTIFICATION: The Army TOC Program will provide centrally funded TOCs for the First Digitized Corps and support warfighting customer initiatives. Army TOCs will ensure the objectives of standardization and interoperability across forces by developing and fielding operationally effective and supportable integrated, digitized tactical operational centers that satisfy the functional information requirements of commanders and staffs at all echelons of command. FY99 funds will procure integration hardware, integration services, and fielding to upgrade and refurbish 23 DIV XXI TOCs and 15 new TOCs. Army TOCs are the C2 nodes which will, for the first time, provide a digital information based operation to plan, control, and dynamically update in real time as the situation evolves/changes. The Army TOC Program is critical to the success of Army Digitization Modernization and to provide warfighters with the tools to win the information war.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TACTICAL OPERATIONS CENTERS (B29865)				Weapon System Type:		Date: February 1998			
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
	1. System Integration / Hardware *														
	2. Fielding														
	3. Project Management Administration														
	4. Engineering Support														
	5. ICS														
	TOTAL												20498	38	539
													2200		
													2136		
													1335		
													534		
													26703		
	* Quantities include DIV XXI TOCs that require upgrades and refurbishment as well as new units. Hardware requirements may vary depending on organizational structure														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: TACTICAL OPERATIONS CENTERS (B79865)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. System Integration FY99	TBD	TBD	AMCOM	1QFY99	4QFY99	38	539	TBD	TBD	TBD
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	54	226	291	190	212	198	349	393	368	944	3343	
Gross Cost	63.0	31.7	36.8	32.3	36.7	37.7	41.6	41.7	40.1	137.9	510.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.0	10.6	31.7	32.3	36.7	37.7	41.6	41.7	40.1	137.9	465.1	
Initial Spares			0.2	2.1	3.3	2.8	2.7	2.9	2.6	9.5	28.1	
Total Proc Cost	18.0	10.6	31.9	34.3	40.0	40.5	44.3	44.6	42.7	147.4	493.2	
Flyaway U/C		90.1	96.4	92.8	119.7	121.4	92.7	80.9	80.3	97.2		
Wpn Sys Proc U/C	120.8	90.1	129.7	170.0	173.0	190.6	119.2	106.1	109.0	155.8		

AFATDS is a single integrated battlefield management and decision support system. It will function on the digital battlefield at Battery through Echelons Above Corps as one of the five battlefield automated systems of the Army Battlefield Command and Control Systems (ABCS). AFATDS utilizes evolving technology of the ABCS Common Hardware/Software procurement. AFATDS is designed to overcome the size, vulnerability, high sustainment cost, limited functionality, central processing and training limitations of the present artillery battalion, division and corps fire direction systems. AFATDS will take advantage of advancing software technology, graphics, decision aids and embedded training to expand the Fire Support functions. AFATDS will be the Fire Support node of the ABCS utilizing the Army Common Operating Environment architecture and providing software assistance to the Fire Support elements and interfacing with all subsystems subordinate to AFATDS and other nodes of the ABCS via standard communications media available to the force. AFATDS will provide all 27 Fire Support functions. These 27 functions are grouped into five Fire Support operational needs: Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Planning, and Field Artillery Fire Direction Operations.

AFATDS hardware items are composed of the following: Fire Support Control Terminal (FSCT), Lightweight Computer Unit (LCU), Tactical Communications Interface Module (TCIM), printers, Tactical Display Devices, and interface kits. This will all be ABCS Common Hardware. Responsiveness, survivability and continuity of operations will be enhanced via dispersed processing centers, intelligent remote terminals, a distributed data base management system and distributed operations. AFATDS will interface with all functional control elements of existing and future Army Fire Support Systems, including the other ABCS Battlefield Functional Area systems, other services employing Fire Support Joint Interoperability message standards and Allied Forces using NATO Fire Support Standards.

Justification: AFATDS will greatly enhance the fire support capability of the battlefield through responsiveness, survivability and continuity of operations. It will provide a complete fire control command and control capability to the commander. FY99 will procure 2 Heavy Divisions, 1 Armored Cavalry Regiment, Training Base hardware and backfill requirements for Forward Observer, FIST, and COLT units upon availability of the Forward Observer Software (FOS).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware *	A		17234	226	76	20770	291	71	16817	226	74	24010	241	100
Program Management Administration			1486			1930			2140			2185		
Engineering Support			4404			4915			4415			4520		
Interim Contractor Support			142			1452			2128			2153		
Fielding														
Total Package Fielding			1095			1321			1416			1359		
New Equipment Training			1610			2977			2654			1744		
BCD/AWE Support			5759			3480			2700			700		
Total			31730			36845			32270			36671		

* Hardware unit cost reflects the average of Training Base, LCUs, FSCTs, and other peripherals required for each fielded unit. FY99 unit cost increased due to the requirements for LCU upgrade kits, and higher percentage of GYG-1V3 and GYG-1V4.

**P5 quantity has been adjusted to reflect current program planning

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY96: FSCT LCU LCU IK FSCT LCU	MILTOPE, Montgomery AL	C/OPTION CECOM	Feb-96	Jun-96	36	93	Yes		
	SAIC, San Diego, Ca	C/OPTION CECOM	Feb-96	Jun-96	76	38	Yes		
	SAIC, San Diego, Ca	C/OPTION CECOM	Jul-96	Dec-96	36	38	Yes		
	TYAD, Tobyhanna, Pa	C/OPTION CECOM	Jul-96	Jan-97	178	20	Yes		
	MILTOPE, Montgomery AL	C/OPTION CECOM	Jul-96	Feb-96	40	93	Yes		
FY97: FSCT LCU LCU Upgrade IK	SAIC, San Diego, Ca	C/OPTION CECOM	Aug-96	Feb-97	58	38	Yes		
	GTE:UCU Taunton Ma	C/OPTION CECOM	Jan-97	May-97	197	85	Yes		
	Litton, San Diego, Ca	C/OPTION CECOM	Jan-97	Jun-97	94	36	Yes		
	Litton, San Diego, Ca	C/OPTION CECOM	Jan-97	Jun-97	6	19	Yes		
	TYAD, Tobyhanna, Pa	C/OPTION CECOM	Jan-97	Jun-97	29	15	Yes		
FY98: FSCT LCU LCU Upgrade IK	GTE:UCU Taunton Ma	C/OPTION CECOM	Jan-98	May-98	160	82	Yes		
	Litton, San Diego, Ca	C/OPTION CECOM	Jan-98	Jun-98	66	38	Yes		
	Litton, San Diego, Ca	C/OPTION CECOM	Jan-98	Jun-98	20	20	Yes		
	TYAD, Tobyhanna, Pa	C/OPTION CECOM	Jan-98	Jun-98	78	15	Yes		
	GTE:UCU Taunton Ma	C/OPTION CECOM	Jan-99	May-99	143	109	Yes		
FY99: FSCT LCU LCU Upgrade IK	Litton, San Diego, Ca	C/OPTION CECOM	Jan-99	Jun-99	98	39	Yes		
	Litton, San Diego, Ca	C/OPTION CECOM	Jan-99	Jun-99	186	20	Yes		
	TYAD, Tobyhanna, Pa	C/OPTION CECOM	Jan-99	Jun-99	56	15	Yes		
REMARKS: FSCT, Ultrasparc Computer Unit (UCU), and LCU are commercial level off-the-shelf hardware being procured on the Common Hardware Software (CHS) contract. IKs reflect total cost for Command Vehicles and FIST Installation Kits. FSCT unit cost reflects varying requirements for peripheral components.									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										FIRE SUPPORT ADA CONVERSION (B78400)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	1932											1932	
Gross Cost	273.1	9.5	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	287.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	273.1	9.5	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	287.9	
Initial Spares	3.0	2.3										5.3	
Total Proc Cost	276.1	11.8	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	293.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The Fire Support Ada conversion (FSAC) is composed of two software programs to provide Command and Control at corps through platoon level for Multiple Launch Rocket System (MLRS) units, and for tactical fire control for cannon units at platoon and battery levels. FSAC fieldings were completed in May 96 and it is not intended to fund this line past FY 98. The FSAC program funding in FY 97 and 98 provides for Package 11 Upgrades, maintenance of equipment, and funding conversions on an individual basis. Package 11 requires existing LCU's have upgraded Hard Disk Drives to support the modified software as directed by ODCSOPS.

On 21 April 1995 ODCSOPS further directed PM FATDS to initiate the Lightweight Forward Entry Device (LFED) program with the FSAC funding line. The LFED is a hand-held programmable input/output unit used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios.

JUSTIFICATION: There is no funding in FY99

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: FIRE SUPPORT ADA CONVERSION (B78400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware LCU (Upgrade)* LFED					1613	70	23	446 1733	583 105	1 17			
2. Project Management Administration					100			168					
3. Engineering Support					289			381					
4. Contract Support					75			90					
5. Fielding								391					
TOTAL					2077			3209					
*Note: LCU Hardware reflects Hard Disk Drives to support Package 11 requirements.													

*Note: LCU Hardware reflects Hard Disk
Drives to support Package 11 requirements.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: FIRE SUPPORT ADA CONVERSION (B78400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
FY97 LFED	GTE Taunton, MA	C/OPTION	CECOM	Jun-97	Mar-98	70	23042	YES		
FY98 LCU (Upgrades) LFED	Litton San Diego, CA GTE Taunton, MA	C/OPTION C/OPTION	CECOM CECOM	Jan-98 Jan-98	Jun-98 Jun-98	583 105	765 16500	YES YES		
REMARKS: The above hardware is NDI/COTS.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			38	54	57	122	270	249	160	240	422	1612	
Gross Cost	0.0	6.0	4.5	5.8	5.6	9.3	20.8	18.9	16.3	20.0	37.3	144.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	6.0	4.5	5.8	5.6	9.3	20.8	18.9	16.3	20.0	37.3	144.6	
Initial Spares			0.5	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2.8	
Total Proc Cost	0.0	6.0	5.0	6.6	5.9	9.5	21.0	19.1	16.5	20.2	37.5	147.4	
Flyaway U/C		41.0	59.0	52.0	58.0	59.0	45.0	44.0	52.0	49.0	43.0	47.0	
Wpn Sys Proc U/C		82.0	132.0	122.0	145.0	91.0	78.0	76.0	103.0	84.0	89.0	89.0	

DESCRIPTION: Combat Service Support Control System (CSSCS) is an automated command and control (C2) system supporting the CSS component of the Army Battle Command System (ABCS), providing the commander a critical logistical C2 capability for the Army's Force XXI. The CSSCS will rapidly collect, analyze and disseminate CSS information to support the functions of command, control and resource management. CSS commanders and staffs are currently participating in the force level planning and decision-making process through a manual effort of gathering correlating, and analyzing volumes of technical data from the existing Standard Army Management Information Systems (STAMIS). CSSCS will provide timely situational awareness and force projection to determine capability to sustain current operations and support future operations. CSSCS uses evolving commercial computer technology of the Common Hardware/Software (CHS), and software built within a Common Operating Environment (COE). CSSCS will be deployed at echelons above corps, corps, divisions, maneuver brigades, separate brigades and armored cavalry regiments. The total OPA requirement for CSSCS is 1,651 systems.

JUSTIFICATION: FY99 funds will support the procurement and fielding of the CSSCS in Full Scale Production. Fielding locations include the XVIII Airborne Corps, 101st Air Assault Division, 3rd Infantry Division, and the training base. This automated CSSCS node is required to support the fielding and operation of ABCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely prediction and situation analyses.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
CD			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.	Hardware		2256	38	59	2812	54	52	2327	40	58	6196	105	59
2.	Program Management Admin													
3.	Engineering Support		338			352			305			375		
4.	TPF		360			805			418			458		
5.	NET		931			1153			975			1051		
6.	FDT		41			48			948			1006		
7.	ICS		210			216			51			66		
8.	Other		411			392			261			180		
TOTAL			4547			5778			5590			9332		
NOTE: P5 Quantities have been adjusted to reflect current program planning.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type		P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSACS) (W34600)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 96 FY 97 FY 98 FY 99	GTE, TAUNTON, MA GTE, TAUNTON, MA GTE, TAUNTON, MA GTE, TAUNTON, MA	C/Option C/Option C/Option C/Option	CECOM CECOM CECOM CECOM	Jan-96 Jul-97 Jan-98 Jan-99	May-96 Oct-97 May-98 May-99	38 54 40 105	59 52 58 59	Yes Yes Yes Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										FAAD C2 (AD5050)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty*	2		3	3	1	2	1	1	3	2	7	25
Gross Cost	13.6	17.8	42.9	41.9	12.7	14.2	11.2	11.2	10.7	9.1	174.1	359.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.6	17.8	42.9	41.9	12.7	14.2	11.2	11.2	10.7	9.1	174.1	359.4
Initial Spares			1.6	1.2	1.6	0.8			0.0	0.0	0.0	5.2
Total Proc Cost	13.6	17.8	44.5	43.1	14.3	15.0	11.2	11.2	10.7	9.1	174.1	364.5
Flyaway U/C**		8.75	14.10	13.70	8.30	5.90	5.20	4.90	4.80	4.30		
Wpns Sys Proc U/C**		8.89	14.30	14.00	10.40	6.40	5.60	5.60	5.40	4.80		

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Divisions (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting System (EPLRS) portion of ADDS, additional SINGARS radios were added to transmit data. On 1 March 1995, this program was designated an Acquisition Category 1C (ACAT 1C) from ACAT 1D by the Undersecretary of Defense for Acquisition and Technology. In April 1995 full scale production was approved and type classification was granted by the Army Acquisition Executive contingent on the Joint Requirements Oversight Council approval of the Operational Requirements Document; the approval was granted in June 1995.

JUSTIFICATION: FY 1997-FY 1999 dollars will be used to procure Common Hardware Software (CHS) computers, displays, software, and Joint Tactical Information Distribution Systems (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade, and Battalion to the individual shooter. FAAD C2 also enables the alerting of air defense gunners, enhances capability for air space management, and automated uptell of acknowledgment of mission and unit position, ultimately enhancing protection to the Force.

* 2 additional prior years units procured during development for a total of 30 units (database should show 28 total).

** Does not include all SAR data; SAR includes FAADC2 and Sentinel (Ground Based Sensor)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: FAAD C2 (AD5050)		Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1.	Hardware- (Combined CHS and JTIDS)* Tadil J Enhancement	24369	3	8123	29822	3	9941	8440	1
2.	Project Management Administration	7400			1923			1200	
3.	Fielding TPF	604			763			336	
	NET	2194			2141			735	
	FDT	290			261			40	
4.	Interim Contractor Support	450			787			250	
5.	Engineering Support	712			818			750	
	SUBTOTAL	38080			36515			14204	
	Other than FAAD C2								
6.	Air Defense Tactical Operations Center	4800							
7.	Div XXI				1400				
8.	3d Army TOCS				4000				
	TOTAL	42880			41915			14204	
*QUANTITIES ARE BASED ON ORGANIZA- TIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPE- CIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).									
** 2 ADDITIONAL PRIOR YEAR UNITS PROCURED DURING DEVELOPMENT FOR A TOTAL OF 30 UNITS									

Exhibit P-5a, Budget Procurement History and Planning										Date:
P-1 Line Item Nomenclature:										February 1998
Weapon System Type:										FAAD C2 (AD5050)
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
WBS Cost Elements: Fiscal Years										
Contractor and Location										
Contract Method and Type										
Location of PCO										
Award Date										
Date of First Delivery										
QTY Each										
Unit Cost \$000										
Specs Avail Now?										
Date Revisn Avail										
RFP Issue Date										
HARDWARE										
FY 1996										
GTE, TAUNTON, MA MILTOPE, MONTGOMERY, AL										
Dec-95										2
Dec-95										1
8123										YES
FY 1997										
GTE, TAUNTON, MA										
Dec-96										3
Dec-96										
9941										YES
FY 1998										
GTE, TAUNTON, MA										
Dec-97										1
Dec-97										
8440										YES
FY 1999										
GTE, TAUNTON, MA										
Dec-98										2
Dec-98										
5447										YES
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										FORWARD ENTRY DEVICE (FED) (829851)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	88.0	0.0	10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	88.0		10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2		
Initial Spares													
Total Proc Cost	88.0	0.0	10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The FED is an integral part of the digitized fire support system architecture. The FED provides the vital sensor to shooter link required for effective fires. The FED also provides critical situation awareness for forward deployed field artillery units.

The Forward Entry Device (FED) program provides the hardware platform to support DoD mandated interoperability/Army digitization requirements (to include implementation of the MIL STD 188-220A protocol and Variable Message Format), to support the new functional user requirements under the next software release and joint technical architecture-Army (JTA-A). FED is used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) Battery Commanders and Fire Support Team (FIST) personnel.

The FED will utilize the same hardware as the Lightweight Forward Entry Device (LFED). FED replacement ensures continued Heavy Division Digital Communications utilizing the Forward Operating System (FOS) software. Without the FED only manual voice call-for-fire missions will be possible.

JUSTIFICATION: In FY99 we are buying 852 units which will complete the 1st Digitized Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)		Weapon System Types:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. Hardware *					9983	536	19	743	45
2. Program Management Administration**								1510	
3. Engineering Support***								4039	
4. Contract Support								279	
5. Fielding								2598	
Totals					9983			25040	
* FY99 Unit cost increase is due to the retrofit of the previous boxes, increased RAM, an upgrade to a Pentium Plus and the requirement for a printer and IK in these units. ** FY97 management support for this program was funded out of the FSAC line (B78400) *** The increase in Engineering Support in FY99 is due to the requirement to test and incorporate voice recognition into the software and the HTU boxes.									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY97 FY98 FY99	GTE Taunton, MA GTE Taunton, MA GTE Taunton, MA	C/OPTION C/OPTION C/OPTION	CECOM CECOM CECOM	Mar-97 Jan-98 Nov-98	Mar-98 May-98 Mar-99	536 45 852	18625 16500 19500	YES YES YES		
REMARKS: *FY97 award delivery reflects shipment in place pending upgrade to 586. This decision to wait for the 586 computers resulted in a savings of \$300 per unit.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										STRIKER-COMMAND AND CONTROL SYSTEM (B78500)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code: B											
0203756A		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty							15	34	39	60	47	56	251
Gross Cost		0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4
Initial Spares													
Total Proc Cost		0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4
Flyaway U/C													
Wpn Sys Proc U/C							.4	.4	.4	.4	.4	.4	

DESCRIPTION: The LaserStrike (Striker) program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a HMMWV chassis supporting heavy and light force fire support operations. The LaserStrike program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The LaserStrike was approved as a Warfighting Rapid Acquisition Program (WRAP) designed to get the LaserStrike operational enhancement to the soldier quickly at the best cost.

JUSTIFICATION: The LaserStrike program modifies components of existing systems and leverages acquisition resources already dedicated for the BFIST program. The LaserStrike program will also leverage test and development activities, along with providing for Horizontal Contract Integration (HCI) across platforms. The LaserStrike provides for integration of the BFIST MEP as a bolt on kit. This strategy will reduce costs and acquisition time, while also affording greater adaptability of the LaserStrike kit to common wheeled platforms.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)				Weapon System Type:		Date: February 1998			
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each						
OPA Cost Elements															
Hardware Cost															
1. Vehicle upgrade															
SUBTOTAL															
Non Recurring Production															
2. Engineering Contractor															
3. Engineering Government															
4. Fielding															
5. Test & Evaluation															
SUBTOTAL															
TOTAL															
NOTE: Quantity has been adjusted to reflect current program planning.															

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
1. Vehicle upgrade FY 99	SEI, St Louis, MO	SS/FFP	USATACOM, Warren, MI	Dec-98	Jun-99	13	310			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Initial Spares												
Total Proc Cost	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description: Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center, provides the essential services needed to maintain CECOM managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. The Mobile Subscriber Equipment, Maneuver Control Systems, Firefinder, TRITAC Switches, and Intelligence/Electronic Warfare Systems are some of the 221 BASs supported by the SEC that directly depend on LCSE support to maintain a posture of mission critical readiness. Adequate funding for LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in a state of operational readiness.

Justification: Policy for PPSS requires that system managers provide initial host capabilities for new systems, and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are five years old or older and/or reaching obsolescence. There is the requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed BASs. With host computers, peripherals (e.g., memory storage devices, terminals, keyboards, and printers, media and replication equipment) having a life-span of approximately five years and the SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and to take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments, in order to meet the ever increasing mission requirements imposed by the field. Funding for this task is essential to provide and maintain the software support environments and LCSE support required to maintain fielded BASs in a state of operational readiness, worldwide, to support the Soldier in the field.

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				
Date: February 1998										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
S/W Development Tools FY 96	NATIONS/NJ	C/TM	CECOM	Apr-96	Jun-96	1	200			
S/W Development Environment Upgrade FY 96	GTE/NEEDHAM, MA	C/TM	CECOM	Apr-96	Jun-96	1	181			
Host System Upgrades FY 96	TELOS/HERNDON, VA	C/FP	CECOM	Apr-96	Jun-96	1	173			
Vaxcluster HSC 50 Upgrade FY 96	DIGITAL/PISCATAWAY, NJ	C/FP	CECOM	Apr-96	Jun-96	1	430			
Vax LAN Ultrix Upgrade FY 96	GTE/NEEDHAM, MA	C/TM	CECOM	May-96	Jun-96	1	383			
FY 97	LOGICON/SAN PEDRO	C/FP	CECOM	Jan-97	Mar-97	1	115			
FY 97	DATA PROCURE CORP, MD	C/FP	CECOM	May-97	Jun-97	1	165			
ETHERNET Upgrade FY 96	LCU H/M FT MONMOUTH, NJ	C/FP	CECOM	Apr-96	Jun-96	1	256			
Office Environment Upgrades FY 96	TVS/FT MONMOUTH, NJ	C/TM	CECOM	Jun-96	Aug-96	1	131			
IBM Peripheral Equipment Buffer Unit FY 96	GTE/NEEDHAM, MA	C/TM	CECOM	May-96	Jun-96	1	260			
REMARKS:										

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										Date: February 1998			
WBS Cost Elements: Fiscal Years					Weapon System Type:					P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)			
Contractor and Location					Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Mission Critical Defense Testbed Upgrade FY 97 FY 97					TELOS/ASHBURN VA GTE/NEEDHAM, MA	C/FP C/TM	CECOM CECOM	Jan-97	Mar-97	1	330		
								Apr-97	Jun-97	1			
Sun Microsystems Upgrade FY 97 FY 97					LOGICON/SAN PEDRO, CA CONTROL CONCEPTS, VA	C/FP GSA	AIR FORCE MAT COM NAVY	Mar-97	Apr-97	1	100		
								Mar-97	Apr-97	1			
IBM Replacement Upgrade FY 97					GTE/NEEDHAM, MA	C/TM	CECOM	Jun-97	Feb-98	1	932		
Fire Support Infrastructure Upgrade FY 97					TELOS/ASHBURN, VA	C/TM	CECOM	Jan-98	Jan-98	1	294		
VAX Cluster Upgrade FY 98					TBD	C/TM	CECOM	Apr-98	Oct-98	1	1000		
Tri-Band Satellite Terminal FY 98					TBD	C/TM	CECOM	Feb-98		1	155		
Network Support(UNICENTER/TNG) FY 98					CSC/ Falls Church, VA	C/TM	CECOM	Apr-98		1	154		
S/W Support Environment for IEWCS FY 98					TBD	C/TM	CECOM	Apr-98		1	154		
REMARKS:													

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:					Date: February 1998	
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
VTC Bridge FY 98		TFE/Ashburn, VA	C/PAF	CECOM	Jan-98	Mar-98	1	250			
Sys Development Upgrade for Fire Support FY 99		TBD	C/TM	CECOM	Feb-99	Apr-99	4	300			
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		LOGTECH (B28889)									
Program Elements for Code B Items:		Other Related Program Elements:									
Code:		A									
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	41.6	1.6	5.0	7.5	13.0	4.4	4.3	4.4	4.5	0.0	89.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	41.6	1.6	5.0	7.5	13.0	4.4	4.3	4.4	4.5	0.0	89.4
Initial Spares											
Total Proc Cost	41.6	1.6	5.0	7.5	13.0	4.4	4.3	4.4	4.5	0.0	89.4
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: LOGTECH or Automatic Identification Technology (AIT) provides state-of-the-art technologies that offer rapid and accurate data capture, retrieval and transmission. The technology includes various radio frequency barcode scanning devices, barcode label and page printers, and various data carrier devices with associated readers and writers. The data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite property receiving, distribution, storage, inventory management and accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment among the Services.

JUSTIFICATION: FY99 fieldings support Depot Systems Command, Major Commands and Army STAMIS with AIT and Radio Frequency Portable Data Collection Device (RFPDCCD) Networks and printers. Funds will continue these essential initiatives, satisfying logistics requirements in the tactical and nontactical arenas.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: LOGTECH (B28889)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
AIT Peripherals *	A	1887	VAR	VAR	4249	VAR	VAR	10722	VAR	1126
RFPDCD Networks **	A	2948	67	44	3036	69	44	2244	51	44
Automated Manifest System	A	192	48	4	192	48	4			
TOTAL		5027			7477			12966		3238
* AIT Peripherals unit cost varies by item										
** Radio Frequency Portable Data Collection Device (RFPDCD)										

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: LOGTECH (BZ8889)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AIT Peripherals *												
FY 96		INTERMEC		OPTION	ISSAA	Mar-96	Jun-96	VAR	VAR	YES		
FY 97		INTERMEC		OPTION	CAC-WOO	Dec-96	Mar-97	VAR	VAR	YES		
		INTERMEC		OPTION	CAC-WOO	Feb-97	May-97	VAR	VAR	YES		
		INTERMEC		OPTION	CAC-WOO	Jul-97	Oct-97	VAR	VAR	YES		
FY 98		INTERMEC		OPTION	CAC-WOO	Feb-98	May-98	VAR	VAR	YES		
		INTERMEC		OPTION	CAC-WOO	May-98	Aug-98	VAR	VAR	YES		
FY 99		INTERMEC		OPTION	CAC-WOO	Dec-98	Mar-99	VAR	VAR	YES		
		INTERMEC		OPTION	CAC-WOO	Mar-99	Jun-99	VAR	VAR	YES		
RFPDCD Networks **												
FY 96		INTERMEC		OPTION	ISSAA	Jan-96	May-96	67	44	YES		
FY 97		INTERMEC		OPTION	CAC-WOO	Dec-96	Mar-97	69	44	YES		
FY 98		INTERMEC		OPTION	CAC-WOO	Feb-98	May-98	26	44	YES		
		INTERMEC		OPTION	CAC-WOO	May-98	Aug-98	25	44	YES		
FY 99		INTERMEC		OPTION	CAC-WOO	Dec-98	Mar-99	24	44	YES		
		INTERMEC		OPTION	CAC-WOO	Mar-99	Jun-99	24	44	YES		
Automated Manifest System												
FY 96		INTERMEC		OPTION	ISSAA	Jan-96	Apr-96	48	4	YES		
FY 97		INTERMEC		OPTION	CAC-WOO	Dec-96	Mar-97	48	4	YES		
REMARKS: * AIT Peripherals unit cost varies by item configuration ** Radio Frequency Portable Data Collection Device (RFPDCD)												
CAC-WOO - CECOM Acquisition Center - Washington Operations Office												

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										TC AIMS II (BZ8900)		
Program Elements for Code B Items:										BD3000 (BE4166)		
Code:										Other Related Program Elements:		
A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	2.1	0.4	0.4	0.4	0.4	0.4	0.0	4.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.1	0.4	0.4	0.4	0.4	0.4	0.0	4.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	2.1	0.4	0.4	0.4	0.4	0.4	0.0	4.1
Flyaway U/C												
Wpnt Sys Proc U/C												

DESCRIPTION: Transportation Coordinator-Automated Information Movements System II (TC AIMS II) will consolidate management of the unit/installation-level transportation functions of Unit Movement, Load Planning and Installation Transportation Office/Traffic Management Office (ITO/TMO) operations into a single automated capability for use throughout DoD. Reducing systems redundancy, functionalities of unit movement, load planning and ITO/TMO transportation AISs will be migrated into its applications. TC AIMS II will provide a common hardware suite running software applications designed for easy data retrieval, data exchange and connectivity to relevant external sources. Open systems architecture is emphasized throughout for standardization and interoperability and for ease of system growth and maintenance. The September 1995 PDM II provided the Army with FY97 funding which is shown under BD3000, Logistics Automation (BE4166). The Principal Deputy Under Secretary of Defense designated the Army as lead service for TC AIMS II in November 1995 and directed realignment of legacy system funding in the Army budget in FY98 and out. The August 1996 PDM I directed that hardware would be funded and provided by each service.

JUSTIFICATION: The TC-AIMS II program must upgrade the TC-ACCIS servers and workstations to be compatible with Defense Information Infrastructure/Common Operating Environment (DII/COE). FY99 funding procures Year 2000 compliant hardware upgrades at existing TC-ACCIS sites. This is a variably configured system based on the COMPAQ 4500 servers and Pentium-based workstations.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: TC AIMS II (BZ8900)		Weapon System Type:		Date: February 1998	
OPA Cost Elements	ID	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
Hardware consisting of: COMPAQ 4500 servers, Pentium-based desktop workstations and Pentium-based laptops	A								
					2132	*VAR	VAR	445	*VAR
TOTAL					2132			445	
* Configurations vary by site									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:															
Equipment		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
WBS Cost Elements: Fiscal Years																			
Hardware consisting of: COMPAQ 4500 servers, Pentium-based desktop workstations and Pentium-based laptops FY 98		TBS		CAC-WOO		Mar-98 Jun-98 Dec-98		Jun-98 Sep-98 Mar-99		VAR		VAR		YES					
FY 99		TBS		CAC-WOO						VAR		VAR		YES					
* Configurations vary by site																			
REMARKS: CAC-WOO - CECOM ACQUISITION CENTER - WASHINGTON OPERATIONS OFFICE																			

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												GUN LAYING AND POS SYS (GLPS) (A300000)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					126	107	128	133			494	
Gross Cost	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0	
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Gun Laying and Positioning System (GLPS) will be a modular, lightweight, cost effective Non-Developmental Item (NDI) that will give each towed and self-propelled non-Paladin firing battery autonomous positioning and directional capability. The GLPS will rapidly self-locate and determine azimuth/deflection and position (Universal Transverse Mercator (UTM) coordinates and altitude) of each howitzer from one centrally located orienting station. The GLPS will consist of a tripod mounted gyroscope integrated with an electronic digital optical instrument, eye-safe laser rangefinder, and transport case(s). Use of the GLPS also requires the AN/PSN-11 Precision Lightweight Global Positioning System (GPS) Receiver (PLGR).

JUSTIFICATION: This system will decrease the time required to survey and lay a howitzer battery from 2 hours to 14 minutes. The GLPS will displace one of the two Position and Azimuth Determining Systems (PADS) and the associated PADS crew within each Field Artillery Battalion. The FY99 funding is a continuation of FY97-98 Warfighter Rapid Acquisition Program (WRAP) production of Test Articles and Operational Prototypes. FY99 funding will buy the initial quantity of GLPS to be fielded to the active Army and National Guard as a Type Classified-Standard weapon system. Procurement and fielding of the 66 GLPS to be purchased with FY99 funds will facilitate displacement of 11 Position and Azimuth Determining Systems (PADS) and 22 PADS crew personnel.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1.		Hardware							5555	64	87	10332	126	82
2.		Engineering Support (In-House)							58			384		
3.		Quality Support (ARDEC)							42			262		
4.		Logistics Support							164			318		
5.		First Destination Transportation							5			102		
6.		Total Package Fielding/New Equip Trng										383		
TOTAL									5824			11781		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:					
					GUN LAYING AND POS SYS (GLPS) (A30000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 98	Leica Technologies, Inc. Leesburg, VA	SS/FFP	ACALA	Jun-98	Sep-99	64	87	Yes	No	
FY 99	Leica Technologies, Inc. Leesburg, VA	SS/FFP	ACALA	Feb-99	Mar-00	126	82	Yes	No	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ISYSCON EQUIPMENT (BX0007)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Initial Spares													
Total Proc Cost		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

Integrated System Control (ISYSCON) will provide an automated method for managing the tactical communication network, establish an interface with each technical control facility and other non-signal management in the ATCCS architecture, and enable automation assisted configuration and management of a dynamic battlefield. The major functions of ISYSCON are network planning, signal command and control, spectrum management, wide area network management and COMSEC management. ISYSCON has been involved in TFXXI and DIVXXI experiments and requirements definition is ongoing for implementation in the tactical internet for FY 98 and FY 99. The ISYSCON program serves as a baseline foundation to support the network management initiatives tied to or part of the evolution to the Digitized Division/Corps and the Warfighter Information Network (WIN) architecture. ISYSCON program provides the network management for WIN-Terrestrial (WIN-T) and solves significant shortcomings in today's network management. ISYSCON will serve as the foundation on which to build the WIN-T network and will serve as the Army baseline for joint communications management. ISYSCON production will utilize the Echelons Corps and Below (ECB) and downsize Echelons Above Corps (EAC) hardware as a building block baseline towards fulfilling the objective design.

JUSTIFICATION:

FY 99 funds will be used in support of the objective ISYSCON configurations and will consist of new government/contractor off-the-shelf hardware and software. FY 99 supports ISYSCON systems required for First Digitized Division (FDD) and Corps (FDC). Seamless network management from theater to the objective digitized division is a necessary requirement for the Warfighter Information Network/information dominance. Reference MEMO from DCSOPS, DAMO-FDC, Subject: Warfighter Information Network (WIN) Network Management/Information Dominance requirements dtd 10 Jan 97.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)		Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
B	1. Govt Furnished Equipment/Hardware 2. Engineering Support a. Contractor b. Government 3. Production Software 4. Battlefield Spectrum Management (BSM) 5. Test/Training 6. ECP 7. Spares	738 1600 828 9600	4	185	608 600 666 800			29862 556 1103 1500 597 557	56 533
	TOTAL	12766			2674			34175	
					10333				

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
FY 1996 Hardware	GTE Taunton, MA	FP/OPT	CECOM	May-96	Oct-96	4	185	YES			
FY 1997 GFE/Hardware	GTE Taunton, MA	GFE	CECOM	Nov-97	May-98	N/A		YES			
FY 1998 Production Software	GTE Raleigh, NC	FP/OPT	CECOM	Nov-97	Sep-98	N/A		YES			
FY 1998 GFE/Hardware	GTE Raleigh, NC	GFE	CECOM	Feb-98	Sep-98	N/A		YES			
FY 1999 GFE/Hardware	GTE Taunton, MA	FP/OPT	CECOM	Nov-98	Jul-99	56	533	YES			
2. Battlefield Spectrum Management (BSM)											
FY 1999	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-98	Sep-99	N/A		YES			
REMARKS: FY 96-97 reflects costs associated with the completion of Phase 1 Integration Systems. FY 98-99 Supports Fielding to FDD/FDC in FY 00/04 FY 99 reflects costs to procure delta equip for a combination of (V)1, (V)2 & (V)3 Configurations, Non-Recurring Engineering, and Integration of systems.											

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											MANEUVER CONTROL SYSTEM (MCS) (BA9320)	
Code: B											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1798		123	81	138	96	332	484			104	3156
Gross Cost	218.3		18.6	13.0		13.0	40.1	52.9	0.6	0.6	54.0	411.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	218.3		18.6	13.0		13.0	40.1	52.9	0.6	0.6	54.0	411.3
Initial Spares	46.0		0.2	0.8				5.1		2.5	4.5	59.0
Total Proc Cost	264.3		18.7	13.9		13.0	40.1	58.0	0.6	3.1	58.5	470.3
Flyaway U/C	0.2		0.1	0.1		0.1	0.1	0.1			0.1	
Wpn Sys Proc U/C	0.2		.2	.2		.2	.1	.1			.1	

DESCRIPTION: The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including planned system improvements to insure increasing Command and Control (C2) capabilities and infusion of current technology while, in the interim, providing an essential core capability.

JUSTIFICATION:

MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then enable the commander to effectively make decisions, issue orders, allocate resources, and fight the battle.

The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advances in technology and achieve Life Cycle Cost savings due of commonality to support.

FY99 funding of \$13.0M will be required to purchase equipment for 4th Infantry Division, Special Operations C2 elements and HQ XVIII ABN Corps.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: MANEUVER CONTROL SYSTEM (MCS) (BA9320)		Weapon System Type:		Date: February 1998	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. HARDWARE	B								
a. AN/TYQ-45 High Capacity Unit (HCU)									
HCU V1									
HCU V2			123	69					
b. Test Hardware		8518			4058	81		3591	53
c. Test Spares		1989							
d. Training Hardware		1108							
2488									
PERIPHERALS									
e. Large Screen Display (LSD)									
f. Tactical Scanner (TACSCAN)									
g. Large Scale Plotter (LSP)									
2. PROJECT MANAGEMENT ADMIN.					1000			612	41
3. TEST								347	31
a. Test Transportation		185						142	31
b. Test Support		1755						1623	
4. FIELDING									
a. New Equipment Training Team (NETT)					1706			1923	
b. 1st Destination Transportation					13			617	
c. Total Package Fielding (TPF)					118			368	
5. INTERIM CONTRACTOR SUPPORT (ICS)					265			2697	
6. OTHER CHS-2 Support Cost Includes:		2528			5851			1113	
MCS Data, Licenses, Common ATCCS									
Logistics & Maintenance Requirements,									
ECV's									
NOTE 1: FY98-01 Quantities are have been									
adjusted to reflect current program planning									
NOTE 2: 1st Destination Transportation									
includes SICPS Transportation									
TOTAL		18571			13011			13033	

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	290.0	12.9	28.8	42.4	35.1	29.8	32.7	53.1	56.0	0.0	629.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	290.0	12.9	28.8	42.4	35.1	29.8	32.7	53.1	56.0	0.0	629.1	
Initial Spares												
Total Proc Cost	290.0	12.9	28.8	42.4	35.1	29.8	32.7	53.1	56.0	0.0	629.1	
Flvaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: STAMIS Tactical Computers (STACOMP) are a group of Commercial Off-the-Shelf (COTS) computer systems supporting STAMIS tactical computer requirements for the US Army. These systems, used by soldiers on the battlefield to support Combat Service Support (CSS) missions at all levels, are transportable and user friendly. STACOMP COTS supports the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Department Army Movements Management System Redesign (DAMMS-R), Unit Level Logistics System (ULLS), Global Combat Support System-Army (GCSS-Army) formerly called Integrated Combat Service Support System (ICSS) and Standard Installation Division Personnel System-3 (SIDPERS-3).

GCSS-Army Phase 1 encompasses the logistics STAMIS (SARSS, SAAS, SAMS and ULLS). In March 1997, The Major Automated Information Systems Review Committee (MAISRC) granted Milestone 0/II/I approval to GCSS-Army, formerly called Integrated Combat Service Support System (ICSS3), Phase 1 and Milestone 0 approval to GCSS-Army Phases 2 and 3. GCSS-Army will be the business/tactical automation enabler for the Army CSS mission area and will constitute the Army portion of the Global Combat Support System. Development and fielding of GCSS-Army will follow an incremental acquisition strategy combining development with incremental fielding of capability packages. GCSS-Army will be fielded in three phases. Phase 1 will include functionality of existing logistics STAMIS and is scheduled for Milestone III approval in 4QFY99 and will complete fielding FY03. Phase 2 will integrate the logistics wholesale and retail levels of CSS while Phase 3 will include joint functions. Phase 2 will conclude in FY04 and Phase 3 in FY06. Beginning in FY98, all STACOMP COTS hardware purchased for logistics STAMIS will support GCSS-Army functionalities.

JUSTIFICATION: FY99 funds procure COTS microcomputers for SAMS, ULLS, GCSS-Army, SIDPERS and STAMIS support systems.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
COTS Microcomputers* for:														
	A	DAMMS -R	286	VAR	VAR	1226	VAR	VAR	933	VAR	VAR			
		SAAS	2257	VAR	VAR	3096	VAR	VAR	3559	VAR	VAR			
		SAMS	2089	VAR	VAR	6915	VAR	VAR	4109	VAR	VAR	14319	VAR	VAR
		SARSS	7287	VAR	VAR	6451	VAR	VAR	1815	VAR	VAR			
		SPBS-R	1508	VAR	VAR									
		ULLS	7268	VAR	VAR	10525	VAR	VAR	9046	VAR	VAR	7666	VAR	VAR
		GCSS-Army							500	VAR	VAR	14454	VAR	VAR
		SIDPERS-3	5532	VAR	VAR	9209	VAR	VAR	14425	VAR	VAR	11627	VAR	VAR
		STAMIS Support	2612	VAR	VAR	4985	VAR	VAR	677	VAR	VAR	182	VAR	VAR
		TOTAL	28839			42407			35064			48248		
* Configurations vary by user requirements and site														

* Configurations vary by user requirements
and site

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
Weapon System Type:					P-1 Line Item Nomenclature:				
WBS Cost Elements: Fiscal Years					STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)				
COTS Microcomputers* for:									
DAMMS -R									
FY 96									
FY 97									
FY 98									
SAAS									
FY 96									
FY 97									
FY 98									
SAMS									
FY 96									
FY 97									
FY 98									
FY 99									
REMARKS:									

1) Configurations (quantity and unit cost) vary by user requirement

2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1

3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)				
Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery	
Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery	
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-96	Dec-96	Feb-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Apr-97	Apr-97	Jun-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Apr-98	Apr-98	Jun-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
VAR	VAR	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Mar-96	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Dec-95	Dec-95	Feb-96	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Jan-97	Jan-97	Mar-97	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	Mar-97	Mar-97	May-97	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Jun-97	Jun-97	Aug-97	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Aug-97	Aug-97	Oct-97	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Dec-97	Dec-97	Feb-98	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	Mar-98	Mar-98	May-98	VAR
GCSS-Army	GCSS-Army	C/FP	VAR	VAR	VAR	May-98	May-98	Jul-98	VAR
FY 96	FY 96	C/FP	VAR	VAR	VAR	Dec-98	Dec-98	Feb-99	VAR
FY 97	FY 97	C/FP	VAR	VAR	VAR	Jun-98	Jun-98	Aug-98	VAR
FY 98	FY 98	C/FP	VAR	VAR	VAR	Aug-98	Aug-98	Oct-98	VAR
FY 99	FY 99	C/FP	VAR	VAR	VAR	VAR *	VAR *	VAR *	VAR

REMARKS:

- 1) Configurations (quantity and unit cost) vary by user requirement
- 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1
- 3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

* Multiple award and delivery dates throughout the FY. COTS will continue to be purchased for legacy STAMIS with the GCSS-Army software being added as it becomes available to replace the legacy STAMIS software.

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00B000)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
SIDPERS-3												
FY 96		VAR		C/FP	VAR	Apr-96	Aug-96	VAR	VAR	YES		
						May-96	Jun-96					
						Jul-96	Dec-96					
FY 97		VAR		C/FP	VAR	Jan-97	Apr-97	VAR	VAR	YES		
						Jun-97	Sep-97					
FY 98		VAR		C/FP	VAR	Mar-98	May-98	VAR	VAR	YES		
						Jun-98	Aug-98					
						Aug-98	Oct-98					
FY 99		VAR		C/FP	VAR	Dec-98	Feb-99	VAR	VAR	YES		
						Mar-99	May-99					
						Jun-99	Aug-99					
						Aug-99	Oct-99					
STAMIS Support												
FY 96		VAR		C/FP	VAR	Nov-95	Feb-96	VAR	VAR	YES		
						Apr-96	Jul-96					
FY 97		VAR		C/FP	VAR	Mar-97	May-97	VAR	VAR	YES		
						Aug-97	Oct-97					
FY 98		VAR		C/FP	VAR	Mar-98	Jun-98	VAR	VAR	YES		
FY 99		VAR		C/FP	VAR	Mar-99	Jun-99	VAR	VAR	YES		

REMARKS: 1) Configurations (quantity and unit cost) vary by user requirement
2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1
3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	0.0	7.0	30.9	39.8	26.8	31.3	35.5	12.3	11.7	0.0	227.9	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	7.0	30.9	39.8	26.8	31.3	35.5	12.3	11.7	0.0	227.9	
Initial Spares												
Total Proc Cost	0.0	7.0	30.9	39.8	26.8	31.3	35.5	12.3	11.7	0.0	227.9	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program includes the procurement of five command post variants, each designed to accommodate the various Battlefield Functional Areas of the Army Battle Command System (ABCS). These include the Army Tactical Command and Control System (ATCCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Command Service Support Control System (CSSCS), the Forward Area Air Defense Command and Control System (FAADC2), the Extended Air Defense Command and Control System (EAD), and the Integrated Meteorological System (IMETS). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floors and liners, work tables, mapboards, and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP mounted on the Heavy High Mobility Multipurpose Vehicle (HMMWV) Shelter Carrier consisting of an on-board generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment mounts, equipment racks to accommodate two ABCS workstations, operator seats, a vehicle intercom system and a 10 meter Quick Erect Antenna Mast (QEAM).
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts, stowage provisions, an updated Auxiliary Power Unit (APU), a vehicular intercom system, a power distribution system, a 10 meter QEAM, and a signal/data wiring module. The converted M577 has been designated the M1068 Track CP.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)
Program Elements for Code B Items		Code	Other Related Program Elements	
<p>(4) Installation Kits for the 5-Ton Expandable Van (E-Van) consisting of racks for up to six ABCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, mapboards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring and signal/dat wiring.</p> <p>(5) Installation Kits for the Soft-Top HHMMWV consisting of equipment racks for up to two ABCS workstations, communications patch panel module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains, an a 10 meter QEAM.</p> <p>JUSTIFICATIONS: The Standard Integrated Command Post System (SICPS) is essential to the Army's Force XXI efforts. It provides the mobile and environmentally protected platform for the ABCS which is a major part of the Army Chief of Staff's effort to digitize the battlefield. Procurement of each of the above variants is required to support the fielding of the noted ABCS nodes with the Army's Common Hardware/Software Command and Control equipment.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	cb		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Tent Command Post			1784	385	5	855	180	5				1540	308	5
PM/Administration Engineering Support														
SUBTOTAL			1784			855			60			1540		
Rigid Wall Shelter			15297	131	117	6100	50	122						
PM/Administration Engineering Support			1562			879			388			360		
Interim Contractor Support			1290			720			1325			410		
Other			1258			1200			1100					
SUBTOTAL			25252			8899			2813			770		
M1068 Conversion Kit						7576	62	122	21750	174	125	18375	140	131
PM/Administration Engineering Support			250			652			1490			470		
SUBTOTAL			750			8797			25575			19145		
5-Ton E-Van Installation Kit			2413	20	121	6310	54	117				1820	13	140
PM/Administration Engineering Support			300			258			490			255		
Interim Contractor Support						172			625			330		
SUBTOTAL			2713			7275			1831			2405		

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9862)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Soft Top HHMMWV Installation Kit												2250	45	50
PM/Administration			190			245			370			310		
Engineering Support			47			1306			900			240		
Interim Contractor Support			125						1100			167		
SUBTOTAL			362			1551			2370			2967		
TOC Integration						12399								
SUBTOTAL						12399								
TOTAL			30861			39776			32649			26827		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9982)			
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date	
Fiscal Years									
Tent Command Post									
FY 96		Camel Manuf. Lafollette, Tenn.		C/Option		ATCOM		Jun-96	
FY 96		Camel Manuf. Lafollette, Tenn.		C/Option		ATCOM		Feb-97	
FY 97		Camel Manuf. Lafollette, Tenn.		C/Option		ATCOM		Feb-97	
FY 99		Camel Manuf. Lafollette, Tenn.		C/Option		ATCOM		Feb-99	
Rigid Wall Shelter									
FY 96		Gichner Manuf. Dallastown, Pa.		C/Option		CECOM		Sep-96	
FY 97		Gichner Manuf. Dallastown, Pa.		C/Option		CECOM		Mar-97	
M1068 Conversion Kit									
FY 97		United Defense San Jose, Ca.		C/Option		TACOM		Nov-97	
FY 98		United Defense San Jose, Ca.		C/Option		TACOM		Mar-98	
FY 99		United Defense San Jose, Ca.		C/Option		TACOM		Mar-99	
5-Ton E-Van Installation Kit									
FY 96		Tobyhanna Army Depot		MIPR		CECOM		Sep-96	
FY 96		Tobyhanna Army Depot		MIPR		CECOM		Feb-97	
FY 97		Tobyhanna Army Depot		MIPR		CECOM		Feb-97	
FY 99		Tobyhanna Army Depot		MIPR		CECOM		Mar-99	
Soft Top HHMMWV Installation Kit									
FY 99		Tobyhanna Army Depot		MIPR		CECOM		Jan-99	
REMARKS:									

Date:

February 1998

[illegible]

Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:		Date: February 1998									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: ARMY TRAINING XXI MODERNIZATION (BE4169)									
Program Elements for Code B Items:		Other Related Program Elements:									
Code:		A									
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Initial Spares											
Total Proc Cost	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: Army Training XXI Modernization uses information technologies to enhance the planning, preparation and execution of individual, (Warrior XXI), collective (Warfighter XXI), and new equipment training (Warmod XXI). It will electronically link Army's master instructors/subject matter experts to soldiers anywhere in the world, to improve performance and create a virtual classroom. Army Training XXI will evaluate evolving training technologies developed by industry/academia for deployment as they enter the commercial main stream. Army Training XXI Modernization will leverage existing and future national communications infrastructure. Infrastructure acquired will be based on industry standards and compliant with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This will help assure not only compatibility with other military services but also that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support the Total Army. Specific initiatives include Distance Learning/Classroom XXI (DL/CR XXI), Army Training Digital Library, Automated Instructional Management System - Redesign (AIMS-R), and Standard Army Training System (SATS).

Warrior XXI - Warrior XXI initiatives include Distance Learning (DL) and Classroom XXI (CR XXI). This effort is critical to sustain soldier/unit proficiency. The Army is and will remain primarily CONUS-based with disbursed smaller units strategically placed worldwide. For the foreseeable future, the Army will perform a far larger array of missions than in the past. Meanwhile, personnel reductions will make it increasingly difficult to provide Mobile Training Teams and New Equipment Training Teams to meet training requirements. DL and CR XXI provide infrastructure to implement a cost effective solution to this problem, aiding Army to maintain acceptable outyear readiness levels despite massive resource reductions. DL/CR XXI supported training enhancements will help reduce the current backlog of over 90K soldiers that require MOS training (47K of whose schooling is not currently programmed for). It will reduce the cost of these efforts by 20% or more. Army can significantly increase levels of MOS qualification, hence readiness, with standardized, Total Army courseware delivered through DL technology. Aggressive implementation of the Army Distance Learning Plan (ADLP) will also help compensate for the impact on the outyear training backlog of the redesign of National Guard divisions and continuing

Exhibit P-40C Budget Item Justification Sheet		Date February 1998				
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature ARMY TRAINING XXI MODERNIZATION (BE4169)					
Program Elements for Code B Items	<table border="1"> <tr> <th>Code</th> <th>Other Related Program Elements</th> </tr> <tr> <td>A</td> <td></td> </tr> </table>	Code	Other Related Program Elements	A		
Code	Other Related Program Elements					
A						

decreases in overall Army resource levels. DL will reduce resident training requirements and soldiers will spend less time in the training base and more time in units, thereby increasing readiness. DL and CR XXI provide the infrastructure needed to achieve these goals. Without this investment, Army schools will be unable to export the expertise and standardization provided by master instructors and subject matter experts; the full benefits of Total Army courseware already updated or currently being updated will not be realized; soldiers will not be able to receive training where and when needed; and the problem of training backlog will be exacerbated.

DL/CR XXI infrastructure will deliver standardized training to Active (AC) and Reserve (RC) Component soldiers world-wide. DL provides infrastructure for soldiers to train at or near their assigned station, in lieu of resident training at Army schools. CR XXI provides infrastructure at sites collocated with Army schools. Operational implementation of DL/CR XXI infrastructure is carefully phased to coincide with development of updated Army courseware, taking into account the number of soldiers needing training, types of training needed, and where training is needed to maximize the return on the DL/CR XXI investment. Tasks supported include conducting training, receiving training, developing training, and storing digitized training materials.

The DL/CR XXI acquisition strategy will follow a multi-phase implementation approach to achieve these objectives. FY98/99 investments will provide an interim capability. It will support and enhance existing Army training capabilities based primarily on a synchronous training model to provide an immediate return on investment. Concurrently, Army will team with industry and academia to develop an overarching functional and technical architecture to support the evolution of the ADLP into the objective Army training model. This model will be based on an optimized mix of synchronous and asynchronous learning techniques. Beginning in FY00, Army will begin acquiring DL/CR XXI infrastructure to both enhance capabilities provided in FY98/99 and to support development/acquisition of learning tools based on the objective Army training model. This investment will leverage advances in information technology and learning theory to make training more available/affordable for the total force and improve overall readiness.

Warfighter XXI - Warfighter XXI initiatives include the Army Training Digital Library (ATDL), the Automated Instructional Management System - Redesign (AIMS-R), and the Standard Army Training System (SATS). Warfighter XXI initiatives support DL/CR XXI through the Warfighter XXI Campaign Plan. The Warfighter XXI Campaign Plan provides a strategic vision and an integrated plan for how the future Army will train battle staff and collective tasks. Result will be an automated training management system designed to enhance the planning, resourcing, execution, and assessment of battle-focused training for the unit and unit commander. The ATDL stores the data and provides unit and institutional commanders access to data necessary to plan, resource, execute, and assess training.

JUSTIFICATION: FY99 funds allow acquisition of interim Warrior and Warrior XXI infrastructure to augment and enhance existing Army training capabilities based primarily on a synchronous training model. This allows an immediate return on investment while design efforts on the objective Army training model are completed.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Warrior XXI ATM Gateway (Router/Multiplexer) Classrooms (Type A) (Desktop PCs, Audio/Video Equipment and Comm Infrastructure) Classrooms (Type B) (Data/Process Servers, desktop/laptop PCs, Audio/Video Equip, & Comm Infrastructure) Remote Classrooms (Data/Process Servers, desktop/laptop PCs, Audio/Video Equip, & Comm Infrastructure) Digital Training Access Centers (Type A) (Data/Process Servers, desktop PCs, Printers, and Comm Infrastructure) Digital Training Access Centers (Type B) (Data/Process Servers, desktop PCs, Printers, and Comm Infrastructure) Management Center (Data Servers, desktop PCs, and Comm Infrastructure) National Guard DL Network Connectivity (Communications Infrastructure) Training Development Suite (Desktop PCs, Printers, and Comm Infrastructure) Warfighter XXI (Data/Video Servers, desktop PCs, printers, scanners, and Communications infrastructure)												
									1785	21	85	3780	45	84
									11826	64	185	6895	38	181
									936	6	156	459	3	153
												14746	73	202
									2376	24	99	282	3	94
												990	15	66
									82	1	82			
									3470	10	347			
									567	21	27	52	2	26
									3455	VAR	VAR	5431	VAR	VAR
		TOTAL							24497			32635		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)				
Equipment					Weapon System Type:				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	21 45	85 84	YES YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	64 38	185 181	YES YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	6 3	156 153	YES YES		
TBS	GSA	CACWOO	Jan-99	Apr-99	73	202	YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	24 3	99 94	YES YES		
TBS	GSA	CACWOO	Jan-99	Apr-99	15	66	YES		
TBS	GSA	CACWOO	Feb-98	May-98	1	82	YES		
TBS	GSA	CACWOO	Feb-98	May-98	10	347	YES		
REMARKS:									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Training Development Suite FY 98 FY 99	TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	21 2	27 26	YES YES		
Warfighter XXI FY 98 FY 99	TBS TBS	GSA GSA	TRADOC TRADOC	Feb-98 Jan-99	May-98 Apr-99	VAR VAR	VAR VAR	YES YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										AUTOMATED DATA PROCESSING EQUIP (BD3000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Less P.Y. Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Initial Spares													
Total Proc Cost	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: AUTOMATED DATA PROCESSING EQUIP (BD3000)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
OPTICAL DIGITAL EQUIP		2801			1310			2679		
ACQN INFORMATION MANAGEMENT (AIM)		97			1357					
NG REFORM INITIATIVE - TITLE XI		6341								
RESERVE HQ AUTOMATION		816			835			815		
SUSTAINING BASE INFO SVC (SBIS)		14518			22359			7000		
STRATEGIC LOGISTICS PROGRAM (SLP)		14667			20333			22523		
HQ MANAGEMENT INFORMATION		5390			5060			3685		
JOINT COMPUTR AIDED ACQ & LOG SPT					21911			34212		
ADPE FOR NON TAC MGMT INFO SYS					225			245		
MACOM AUTOMATION SYSTEMS		31166			18527			21312		
LOGISTICS AUTOMATION SYSTEMS		4841			9528			5983		
MEDICAL AUTOMATION SYSTEMS		1781			1614					
PERSONNEL AUTOMATION SYSTEMS		31646			34874			30537		
HIGH PERFORMANCE COMPUTING		454			419			421		
	</									

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									OPTICAL DIGITAL EQUIP (BD3956)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:										
Program Elements for Code B Items:		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3
Initial Spares												
Total Proc Cost	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army.

PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS) : PERMS provides an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS, has and will continue to convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selector/promotion boards.

DOCUMENT IMAGING PROCESSING SYSTEMS: This budget line ensures Army compliance with Code of Federal Regulations (CFR) 36 and 41 for economy and efficiency in documenting Army business. This program fields replacement for obsolete equipment at 63 installations which reproduce and distribute Standard Army Management Information System (STAMIS) reports (Personnel, Finance, Logistical, Medical, etc.) and Base Operating Reports on microfiche. This program processes 8 billion pages per year, thus avoiding \$100 million in paper costs. It is the key support for on going imaging applications, including costs for software licenses.

JUSTIFICATION:
 PERMS: FY 99 funds support reengineering and upgrade of PERMS hardware, remote access and Year 2000 upgrades.
 DOCUMENT IMAGING PROCESSING SYSTEMS: FY 99 funds procure document imaging and joint multi-media information processing systems. Funds will procure hardware, software and the peripherals necessary to provide various installation data processing centers with the capability to link with existing Defense Mega Center technology. This program will maximize utilization of the Mega Centers and avoid significant potential operation and maintenance costs in the future.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
Standard Army Computer Output Microform (STACOM)									
STACOM Upgrade	A	1167	VAR	VAR					
Document Imaging Processing System	A			845	VAR	848	VAR	845	VAR
PERMS	A	1634	VAR	465	VAR	1831	VAR	2026	VAR
TOTAL		2801		1310		2679		2871	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
STACOM Upgrade FY 96	Kodak	OPTION	USAISSAA	Feb-96	May-96	VAR	VAR	YES	NO	
Document Imaging Processing System										
FY 96	Kalax, Inc	C/FP	FEDSIM	Dec-95	Jan-96	VAR	VAR	YES	NO	
FY 97	AINS	C/FP	FEDSIM	Dec-96	Jan-97	VAR	VAR	YES	NO	
FY 98	AINS	C/FP	FEDSIM	Dec-97	Jan-98	VAR	VAR	YES	NO	
FY 99	AINS	C/FP	FEDSIM	Dec-98	Jan-99	VAR	VAR	YES	NO	
PERMS										
FY 96	PRC	C/FP	USAISSAA	Jul-96	Aug-96	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	CAC-WOO	Feb-97	May-97	VAR	VAR	YES	NO	
FY 98	PRC	C/FP	FEDSIM	Jan-98	Apr-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	TBS	Dec-98	Mar-99	VAR	VAR	YES	NO	
REMARKS: Kodak - Eastman Kodak, Rochester, NY AINS - Advanced Information Network Systems, Inc., Rockville, MD USAISSAA - United States Army Information Systems Selection and Acquisition Agency FEDSIM - Federal Systems Integration Management Center PRC - Planning Research Corp. - McLean, VA CAC - WOO - CECOM Acquisition Center - Washington Operations Office VAR - Unit costs and quantities vary by configuration. Kalax Engineering Inc., Arlington, VA										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998				
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:			STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												Other Related Program Elements:					
Program Elements for Code B Items:												Code:					
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog					
Proc Qty																	
Gross Cost	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3					
Less PY Adv Proc																	
Plus CY Adv Proc																	
Net Proc (P-1)	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3					
Initial Spares																	
Total Proc Cost	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3					
Flyaway U/C																	
Wpn Sys Proc U/C																	
<p>DESCRIPTION: This budget line supports the Total Distribution Program (TDP), an initiative to correct deficiencies in the distribution of materiel, equipment, personnel replacements, and mail, which occurred during Operation Desert Shield/Storm, and to lay the foundation supporting Force XXI and Log Advanced Warfighting Exercises (AWE). Lessons learned during Desert Shield/Storm, revealed that the materiel distribution system suffered from chronic problems. Multiple duplicate orders for supplies and spare parts caused backlogs at ports in CONUS and in the theater of operations. Over 25,000 containers, out of the 40,000 shipped, had to be opened to determine contents. The resulting shortage of spare parts and supplies in the theater area caused otherwise repairable equipment to be declined. The purpose of the TDP initiative is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from initial shipping point to destination. Critical corrective actions include development and fielding of communications capability for logistics, the use of emerging technologies to enhance visibility and materiel accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The Vice Chief of Staff, Army (VCSA) approved Total Distribution Action Plan (TDAP) has identified 140 problem areas with milestones for implementing corrective actions. The TDP supports "Improving Logistics Support in Combat Zones" and the Army Strategic Logistics Plan.</p> <p>JUSTIFICATION: FY 99 funding develops communications capability for transmission of logistics information both within a theater of operations and between the theater and the sustaining base. Work is underway to interface the Tactical Packet Network (TPN), which operates in the tactical environment, with the communications architecture of sustaining base systems, enabling the warfighter to pass data directly to the sustaining base. During the Gulf War, lack of such communications capability was a critical deficiency, which hampered the distribution process. In addition, programmed funds will support the procurement of Automatic Identification Technology (AIT) such as Radio Frequency (RF) Tags to provide source data automation. RF Tags are used for "inside the -box" visibility of container contents and to track critical material throughout the distribution pipeline.</p>																	

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
TPN/DDN Interface Mobile Gateway Van/ DCS Entry Point/Installation Fac	A	610	VAR	VAR					
Packet Switch Upgrade/AN TTC 39A to 39E SSS Program	A	2000	1	2000	6300	VAR	VAR	8700	*5
CSS Automation Integration Comm Hardware & Software	A	2680	55	49	5500	124	44	5320	*120
Automation ID Technology RF Tags/Interrogators/RF Links/Solar Panels	A	9377	VAR	VAR	7333	VAR	VAR	7303	VAR
Warfighter Rapid Acquisition Program (WRAP) RF Data Tags					1200	30	40	1200	30
TOTAL		14667			20333			22523	
								23191	

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)				
Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Contractor and Location									
TPN/DDN Interface Mobile Gateway Van FY 96	VAR****	VAR**	VAR**	VAR	VAR	YES	NO		
Packet Switches Upgrade FY 96	GTE	Sep-96	Oct-96	1	2000	YES	NO		
FY 97	GTE	Jun-97	Aug-97	4	VAR*	YES	NO		
FY 98	GTE	Dec-97	Feb-98	5	VAR*	YES	NO		
FY 99	GTE	Dec-98	Feb-99	2	VAR*	YES	NO		
CSS Automation Integration Comm Hardware & Software FY 96	VAR***	Jun-96	Aug-96	55	VAR*	YES	NO		
FY 97	SYSOREX, Inc.	May-97	Jul-97	124	VAR*	YES	NO		
FY 98	TBS	May-98	Jul-98	120	VAR*	YES	NO		
FY 99	TBS	May-99	Jul-99	124	VAR*	YES	NO		
Automation ID Technology RF Tags/Interrogators/RF Links/Solar/Panels FY 96	Savi Tech	Apr-96	May-96	VAR	VAR*	YES	NO		
FY 97	Savi Tech	Apr-97	May-97	VAR	VAR*	YES	NO		
FY 98	TBS	Mar-98	Apr-98	VAR	VAR*	YES	NO		
FY 99	TBS	Mar-99	Apr-99	VAR	VAR*	YES	NO		
WRAP RF Data Tags FY97	Savi Tech	Feb-98	Jul-98	30	40	YES	NO		
FY98	Savi Tech	Aug-98	Nov-98	30	40	YES	NO		
REMARKS: GTE - Taunton, MA Standard Army Savi Tech - Mountain View, CA VAR - Unit costs and quantities vary by configuration. VAR* - Qty & unit cost vary with location Contracts vary depending on components purchased. VAR** - Multiple contracts awarded/Delivered throughout the year. VAR*** - Data Communications Enterprise, Olney, MD; Sysorex Inc. - Fairfax, VA and Motorola - Tempe, AZ									
PEO STAMIS-Program Executive Office - Management Information Systems SYSOREX, Inc. - Fairfax, VA									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										RESERVE HQ AUTOMATION (BE4000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Initial Spares													
Total Proc Cost	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: USA RESERVE INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP): USAR IMMP provides automation support for Headquarters, US Army Reserve Personnel Center (ARPERCEN) missions, to include providing for Total Army mobilization with trained personnel through command and control, providing life cycle personnel management for Army reserve soldiers and providing personnel services and administrative support to Army Veterans. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. ARPERCEN is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB-Reserve and RCAS.</p> <p>JUSTIFICATION: FY 99 funds support the US Army Reserve Transformation which calls for improved economies and efficiencies in USAR Personnel Management. This plan calls for increased automation support to accomplish a reduction of 413 personnel (25% reduction) in conjunction with the establishment of a new Reserve Personnel Command. Program funding will be key in meeting this goal, continuing the migration of Reserve Business Processes to a client server environment. This migration includes the integration of imaging (Personnel Electronic Records Management System (PERMS)) and networked workstations, in support of personnel and mobilization systems critical to warfighting, accountability, interoperability and veterans.</p>													

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
USA Reserve Information Management Master Plan (USARIMMP):									
Personnel Enterprise System-Automation (PES-A)		816	1	816	835	1	815	792	1
TOTAL		816			835		815	792	

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
USA Reserve Information Management Master Plan (USARIMMP):											
Personnel Enterprise System											
FY 96	EDS	C/FP	GSA	Jun-96	Aug-96	1	816	YES	NO		
FY 97	EDS	C/FP	GSA	Feb-97	Jul-97	1	835	YES	NO		
FY 98	EDS	C/FP	GSA	Feb-98	Mar-98	1	815	YES	NO		
FY 99	EDS	C/FP	GSA	Feb-99	Mar-99	1	792	YES	NO		
REMARKS: EDS - Electronic Data Systems - Reston, VA GSA - General Services Administration, Heartland Region, Kansas City, MO											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		ADPE FOR NON TAC MGMT INFO SYS (BE4150)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3
Initial Spares												
Total Proc Cost	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports the Scaled Model Signature Measurement Facility (SMSMFAC) within the Intelligence and Security Command (INSCOM). The SMSMFAC laboratory develops signature information that is vital to the development, testing, fielding, and reprogramming of present and future smart sensor and munitions systems.

JUSTIFICATION: FY 99 funds procure equipment for a target stage, a target stage controller, a High Frequency (HF) spectrum analyzer, microwave intermediate frequency stages, heterodyne systems and a carbon dioxide laser system.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Scaled Model Signature Measurement Facility (SMSMFAC) FY 97 FY 98 FY 99			University of MA University of MA TBS		Option Option Option	INSCOM INSCOM INSCOM	Mar-97 Dec-97 Dec-98	Apr-97 Jan-98 Jan-99	1 1 1	225 245 255	YES YES YES	NO NO NO	
REMARKS: University of MA, Lowell Research Foundation, Lowell, MA													

Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:											HIGH PERFORMANCE COMPUTING (BE4152)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:												
Program Elements for Code B Items:		Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty														
Gross Cost	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7		
Initial Spares														
Total Proc Cost	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7		
Flyaway U/C														
Wpn Sys Proc U/C														
<p>DESCRIPTION: This program satisfies critical needs for advanced computational technology for Army scientists, engineers and analysts, and represents the leading edge of high speed processing. This capability is not available through other technology and is designed to solve problems which cannot be resolved in other ways. The program provides for access to Supercomputing resources consisting of networked Supercomputers at various CONUS locations. Supercomputer systems are required to satisfy critical research and development missions in combat and material development programs. Significant advances in supercomputer technology have provided increases in both speed and memory. This is essential for performing fully time-dependent, three-dimensional computations and simulations directed at major new weapon designs or battlefield management. The resultant use of this advanced high-performance computing technology is the generation of very large data sets. In order to effectively and efficiently process this data, robotic mass storage systems are required. Examples of the major Army applications best suited to supercomputer technology include battlefield management, modeling/simulation, weapons systems design, terrain analysis, mechanical design (structural and dynamic vehicles), nuclear survivability, and material dynamics and composition. Supercomputers are contributing to efforts for high leverage, high payoff programs which exploit technological advances, reduce logistics burden, lower acquisition and O&M costs, and provide required lethality at reduced weight and volume.</p> <p>JUSTIFICATION: FY 99 funds provide local site and Army specific automation infrastructure in order to allow for the effective use of the Army Research Lab (ARL), which is one of four designated DOD Major Shared Resource Centers (MSRCs). Funding will procure mass storage, work stations, and network connectivity for Army users of the ARL MSRC and its associated Distributed Centers. The DOD High Performance Computing Modernization Program (HPCMP) is currently spending over \$200M on the Centers but is not providing any funding for service specific infrastructure. Funds will leverage these assets being procured through the DOD HPCMP and capitalize on leading edge technology in multi-terabyte mass storage systems</p>														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:															
Equipment		Contractor and Location		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
WBS Cost Elements:	Fiscal Years																		
Mass Storage Upgrade FY 99		TBS		ARL		Jan-99	Mar-99	1	419	YES	NO								
Robotic Mass Storage Upgrade FY 96		GMSI		ARL		Jan-96	Mar-96	1	454	YES	NO								
I/O Technology Upgrade FY 97		Hi-Tech		ARL		Jan-97	Mar-97	1	419	YES	NO								
FY 98		Storage Tech		ARL		Jan-98	Mar-98	1	421	YES	NO								
REMARKS: ARL - Army Research Laboratory GMSI - Global Management Systems Inc. - Bethesda, MD Hi-Tech International - Red Wing, MN Storage Tech - Parsippany, NY																			

Exhibit P-40, Budget Item Justification Sheet:												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	99.6	8.5	5.4	5.1	5.7	5.8	5.8	6.0	6.1	0.0	151.7	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	99.6	8.5	5.4	5.1	5.7	5.8	5.8	6.0	6.1	0.0	151.7	
Initial Spares												
Total Proc Cost	99.6	8.5	5.4	5.1	5.7	5.8	5.8	6.0	6.1	0.0	151.7	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes a number of information systems that support Army headquarters worldwide. These systems are included in Army's Modernization Plan.

JUSTIFICATION:

HQDA ADPE: Provides for information management support to HQDA across the entire IM Spectrum. It includes initiatives approved by a joint Office Secretary of Army/Army Staff (OSA/ARSTAF) senior planning group. FY99 funds buy IM support including file servers, Local Area Networks (LANs), multipurpose workstations, stand-alone end-user devices, other peripherals and decision support systems. These funds will also purchase a correspondence tracking system, which will provide a flexible, integrated, automated system to support the control and management of actions, correspondence, filed documentation, executive requests and internal actions that will satisfy the needs of organizations within the HQDA staff. Future funding will also procure equipment for the USA Concepts Analysis Agency ADP Modernization Project, which will enable the Army's principal theater-level study agency to perform quick reaction analyses for the Army Staff, MACOMs and OCONUS commands. These acquisitions will continue to improve the productivity of the senior leadership and their staffs located within the National Capital Area through improved access to functional and decision-level information. These decisions impact force structure and modernization, logistics, personnel, finance and every functional area of the Army.

LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS): LAAWS is an approved STAMIS for Army law offices. It supports automated research and preparation of legal advice to Army commanders, form brigade through HQDA level, on the target selections, treatment and classification of refugees and prisoners of war, military operations in occupied areas, international treaties, Law of War, etc., and assists individual soldiers with legal readiness matters. LAAWS produces different types of legal documents, including wills and powers-of attorney. It supports automated legal research, electronic mail (through DDN connectivity), the processing and management of claims for/against the Army and the electronic distribution of legal materials. FY99 funds provide for the acquisition of LANs, CD-ROM drives, software and other peripheral equipment required to support Army law offices' automation standardization and development of an Armywide legal resources network. Automation of law offices is a critical step required to offset the effects of the Army drawdown on legal personnel. It will enable the legal staff to continue protecting Army's interests in civil/environmental litigation, procurement fraud, and other legal claims areas. This effort is made even more urgent by today's military involvement in multinational peacekeeping/humanitarian efforts.

<p align="center">Exhibit P-40C Budget Item Justification Sheet</p>		<p>Date</p> <p align="center">February 1998</p>
<p>Appropriation / Budget Activity/Serial No.</p>	<p>P-1 Item Nonnomenclature</p>	<p>HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)</p>
<p>OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</p>	<p>Code</p>	<p>Other Related Program Elements</p>
<p>Program Elements for Code B Items</p>		
<p>(Continuation)</p> <p>ARMY MODEL IMPROVEMENT PROGRAM (AMIP): AMIP is designed to improve the Army's analytic capability by providing a consistent basis to support decision making affecting force structure, doctrine, and procurement. AMIP directly supports Principle 10, Exploit Modeling and Simulations, of the Army Enterprise Strategy. By using state-of-the-art hardware and new software technology, AMIP will develop an integrated family of computerized combined arms combat models with supporting data bases. These models will support studies, research, and training. Component models will be interfaced and tested for validity and consistency of representations and results. The FY99 funds will procure state-of-the-art computer simulation and graphics equipment/software. The equipment will be used by numerous analysis agencies, MACOMs, and national laboratories to develop more efficient, cost effective, realistic scenarios and real-time simulations of complex combat and associated processes for analysis of data. The achievement of these goals will provide readily understood, valid, and more responsive input into the decision making process affecting weapons procurement, force development, force deployment, tactics, sustainment, and enhance the overall warfighting capability of the Army. The funds will also provide for the upgrading of existing simulations/support equipment and software.</p> <p>HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES): HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. It consists of five subsystems: Family Housing Assignments and Terminations (A&T) for assignments to government housing, Community Homefinding Relocation Referral Services (CHRRS) for help in locating off-post housing, Billfiling (BIL)/Lodging supports transient billets, Fisher houses, guesthouses, BOOs & SBEQs, Furnishings Management (FURN), and Headquarters Support (HQ HOMES) increases availability of housing services, housing utilization, housing inventory control, control of Basic Allowance for Quarters (BAQ), upward reporting needs, and elimination of the housing questionnaire survey process. The five subsystems are fully deployed worldwide. HOMES has been identified as a critical element of the Army Family Action Plan to improve the level of housing services to soldiers and families. The system operates on INTEL 310/320's, AT&T 3B2, and HP9000 minicomputers, located in the local housing offices. FY99 funds will be used to purchase replacement equipment for the A&T/CHRRS/SA subsystem. The equipment included will be computers, printers, high speed batch printers, and communications equipments. HOMES is a centrally managed system, where all software is developed and all equipment is identified, tested and approved centrally. Since initial fielding of HOMES, Army installation Housing Offices have become dependent on the system to fulfill their mission-management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. An equipment failure effectively closes a housing office operation. The re-engineering focuses on improving efficiency of operation and support for Commercial Venture Initiatives (CVI). The A&T/CHRRS/FURN modules are being re-engineered to accommodate these procedures and to test new concepts of operations. The re-engineered system will be Windows NT based and conform with the directions promulgated in the Army Technical Architecture (ATA) and the DoD Technical Architecture For Information Management (TAFIM). This architecture will support the integration of the HOMES system with local office automation.</p> <p>STRATEGIC C2 FACILITIES: Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the senior leadership of the Army and to obtain a completely integrated, multi-level security system with full connectivity to DOD's Global Command and Control System (GCCS). The system currently includes an Information Processing System with a variety of work-stations; a Local Area Network (LAN - over 250 users); an Automated Message Handling System (AMHS); and a Briefing Display and Support System (BDS), and application tools to manage Army readiness, mobilization, and deployment data. A fully integrated desktop with user friendly tools and access to most Army and DOD databases is a key AOC goal. The system supports every crisis action involving the Army and allows the senior Army leadership and ARSTAF action officers to quickly access, manipulate, display, brief and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate, as well as all crisis actions and JCS exercises. FY 99 acquisitions include critical components (flat screen displays, and LAN hubs, routers, concentrators and development of new software) for the LAN and BDS to improve system reliability, enhance system management capabilities, and ensure complete compatibility with AGCCS, GCCS and other joint staff initiatives.</p> <p>SITE R INTEGRATION PROGRAM (SRIP): The Army, as the Executive Agent for the Alternate Joint Communication Center (AJCC) at Site R, has responsibility to maintain and replace as needed the AJCC Information Management Infrastructure, and ensure the integration of new and improved systems planned for the AJCC. The AJCC includes communications facilities at Site C, Site RT and the underground facility at Site R and is the home to the Alternate National Military Command Center (ANMCC). FY-99 funds will support the complete integration of an alternate Communication Path from Site R to the facility at Site C. This includes engineering, procurement of materials, installation, testing and securing of a Right of Way along public and private properties. Funding will also be used to purchase and install a secure I and Area Network (I and AN) to provide Site R instant access to the Defense Department Secure Internal Network (DDPINET).</p>		

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
ID	CD	Cost Elements	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A		HQDA ADPE	1320	VAR	VAR		VAR	VAR	1351	VAR	VAR	1396	VAR	VAR
A		LAAWS	582	VAR	VAR		VAR	VAR	425	VAR	VAR	590	VAR	VAR
A		AMIP	1314	VAR	VAR		VAR	VAR				653	VAR	VAR
A		HOMES	343	VAR	VAR		VAR	VAR	451	VAR	VAR	505	VAR	VAR
A		Strategic C2 Facilities	1424	VAR	VAR		VAR	VAR	766	VAR	VAR	687	VAR	VAR
A		Site R Integration Program	407	VAR	VAR		VAR	VAR	692	VAR	VAR	1864	VAR	VAR
TOTAL			5390			5060			3685			5695		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)		
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?
HQDA ADPE:										
- HQDA Correspondence Tracking System										
FY 96	VAR*			C/FP	DSSW	Apr-96	Jul-96	1	319	YES NO
FY 97	VAR*			C/FP	DSSW	Sep-97	Dec-97	1	546	YES NO
FY 98	Eastman Software			C/FP	DSSW	Mar-98	May-98	1	405	YES NO
FY 99	TBS			C/FP	DSSW	Feb-99	May-99	1	746	NO NO
- CAA ADP Modernization										
FY 96	VAR**			C/FP	DSSW	Feb-96	May-96	VAR	VAR	YES NO
FY 97	VAR**			C/FP	DSSW	Aug-97	Oct-97	VAR	VAR	YES NO
FY 98	TBS			C/FP	DSSW	Mar-98	Apr-98	VAR	VAR	YES NO
FY 99	TBS			C/FP	DSSW	Feb-99	May-99	VAR	VAR	NO NO
- Defense Message System										
FY98	TBS			C/FP	DSSW	VAR	VAR	VAR	VAR	YES NO
LAAWS										
- Wide Area Network (WAN)										
FY 96	EDS			C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES NO
FY 97	EDS			C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES NO
FY 98	EDS			C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES NO
FY 99	TBS			C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	NO NO
AMIP										
- Workstation hardware & Software										
FY 96	VAR***			C/FP	VAR****	VAR	VAR	VAR	VAR	YES NO
FY 97	VAR***			C/FP	VAR****	VAR	VAR	VAR	VAR	YES NO
FY 99	VAR***			C/FP	VAR****	VAR	VAR	VAR	VAR	YES NO
REMARKS:		EDS - Electronic Data Systems - Herndon, VA Eastman Software, McLean, VA VAR - Unit costs and quantities vary by configuration VAR* - Alpha Com - Chantilly, VA; Inline Corp - Vienna, VA; PRC - McLean, VA; MicroStar Co, Inc-Jessup, MD VAR**- Global Management Support - Bethesda, MD; International Business Network - Vienna, VA VAR*** - SUN - Vienna, VA; Silicon Graphics - Silver Springs, MD; Falcon-Landover, MD; IBN - Bethesda, MD; Hewlett Packard, MD VAR**** - National Simulation Center (NSC), Concepts Analysis Agency (CAA), TRADOC Analysis Center (TRAC), USA Material Systems Analysis Activity (USAMSA)								

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HOMES		PRC		C/F/P	DCMAO	Jan-96	Feb-96	VAR	VAR	YES	NO	
- HP9000 Peripheral Equipment		PRC		C/F/P	DCMAO	Feb-97	Mar-97	VAR	VAR	YES	NO	
FY 96		PRC		C/F/P	DCMAO	Jan-98	Feb-98	VAR	VAR	YES	NO	
FY 97		PRC		C/F/P	DCMAO	Jan-99	Feb-99	VAR	VAR	YES	NO	
FY 98												
FY99												
STRATEGIC C2 FACILITIES												
- Briefing Display System (BDS)												
- Security, Admin and Spt Tools												
- Automated Message Handling												
- Data System/Application Management												
- COM/LAN Segment; GCCS Integration												
- LAN Lifecycle Mgmt												
- Matrix Switch												
- Command Center Applications												
- Integration Testing												
- Image Boss Upgrade												
FY 96		JPL/GSA		C/F/P	NASA/DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 97		JPL		MIPR	NASA/DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 98		JPL		C/F/P	NASA/DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 99		JPL		C/F/P	NASA	VAR	VAR	VAR	VAR	NO	NO	
REMARKS: DCMAO - Defense Contracting Administration Office PRC - Planning Research Corp - Reston, VA JPL - Jet Propulsion Laboratory, Pasadena, CA NASA - National Aeronautical Space Administration ISEC - Information Systems Engineering Command CECOM - Communications and Electronics Command VAR - Unit costs and quantities vary by configuration.												
DSSW - Defense Supply Service Washington												

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SITE R INTEGRATION PROGRAM - Matrix Switch BOM FY 96 - DMS LAN FY 96 - DMS Infrastructure FY 97 - Emergency Action Ctr Upgrade FY 98 - Site C to Site R Alternate Communication Route FY99 - Secure LAN FY99		Tobyhanna, PA 11th SIG BN, Ft Ritchie, MD ISEC/CONUS TBS TBS ISEC/CONUS		MIPR	CECOM	Mar-96	VAR	VAR	VAR	YES	NO	
				MIPR	ISEC/CECOM	Jun-96	VAR	VAR	YES	NO		
				MIPR	CECOM/SMC	May-97	Oct-97	1	1023	YES	NO	
				MIPR	CECOM/SMC	Mar-98	Apr-98	VAR	VAR	YES	NO	
				TBS	CECOM/SMC	Mar-99	May-99	1	1200	NO	NO	
				MIPR	CECOM/SMC	Apr-99	Jun-99	1	664	NO	NO	
REMARKS: CECOM - Communications and Electronics Command ISEC - Information Systems Engineering Command SMC - Systems Management Center												

Exhibit P-40, Budget Item Justification Sheet										Date: February 1998	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:						MACOM AUTOMATION SYSTEMS (BE4162)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Other Related Program Elements:							
Program Elements for Code B Items:				Code:							
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5
Initial Spares											
Total Proc Cost	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: This budget line supports automation systems requirements of Major Army Commands (MACOMs) and field activities not included in other centrally managed programs. These requirements conform with the Army's Information Management (IM) Architecture and are included in MACOM IM Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

JUSTIFICATION:

MACOM AUTOMATION SYSTEMS: FY 99 funds support systems modernization/life cycle replacement throughout Forces Command (FORSCOM), US Army Europe (USAREUR), Training and Doctrine Command (TRADOC), Army Materiel Command (AMC), Military District of Washington (MDW), Eighth US Army (EUSA), US Army Pacific (USARPAC), US Army Recruiting Command (USAREC), Army Signal Command (ASC), Army War College (AWC), and Intelligence and Security Command (INSCOM). Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/end user level systems architecture and the transition to an open systems environment (OSE). These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. Due to increased emphasis on expense/investmer criteria for IM acquisitions, this budget line reflects MACOM funding realignments (OMA/OPA transfers) to ensure investment items are budgeted in the correct appropriation. In addition, OPA funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology, thus streamlining manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes, infrastructure to support leaner organizations, and the total compatibility and interoperability needs of a force projection Army. All acquisitions have or will be supported by MACOM Information Requirements Studies and documentation in the MACOM IM Modernization Plans, all conforming with the Army's IM Architecture.

Exhibit P-40C Budget Item Justification Sheet		Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature MACOM AUTOMATION SYSTEMS (BE4162)	
Program Elements for Code B Items	Code	Other Related Program Elements
(Continuation)		
<p> ARMY ELECTRONIC COMMERCE (EC): Army Electronic Commerce synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohesive electronic business network. Army EC implements Executive direction for the Federal Government and Defense Services/Agencies to implement Electronic Commerce globally. Army EC complements other Defense-wide efforts such as the Defense Reform, Paperless Acquisition, and the Joint Computer-aided Acquisition and Logistics Support. By conducting business electronically, the Army will be able to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC helps create the digitized power projection platform necessary for the sustainment of the Army's digitized battlefield through electronic commerce with its Industrial Partners. Army EC supports pilot projects as "proof-of-concept" of EC technologies applied to re-engineered business processes. FY99 funds will acquire hardware and software upgrades and communications for implementing Army EC based on business process re-engineering and Army priorities that comply with the Secretary of Defense Directives outlined in the Defense Reform Initiative Report. Implementation will be in coordination with Army functional components, OSD, and the Defense Information Systems Agency (DISA). Acquisitions will include hardware and software to accommodate translating electronic output into formats consistent with Federal Information Processing Standard (FIPS) 161-2 for Electronic Data Interchange, as well as acquisition of other EC technologies that support the Army's transition to a paperless environment. </p> <p> ARMY REUSE CENTER (ARC): ARC's mission is to ensure that DOD and Army objectives of reusable, maintainable, and reliable software assets and data models are achieved. This is accomplished through the development, implementation, maintenance, and administration of a total reuse program supporting the entire software development cycle. FY 99 funding expands communications, hardware, software, and communication lines to support the ARC's expanding Army user base. Emphasis will be placed on providing on-line access to Software Development Centers (SDCs), key support activities such as the Computer Science School, and selected PMs (e.g., SBA and RCAS). In addition to expanding the communication requirements, particular attention will be paid to expanding the user interface features such as expert systems and other Artificial Intelligence (AI) applications to assist the user in searching and analyzing the ARC's reusable components. In addition, this funding supports the ARC role in analyzing the Army C4I Technical Architecture and Reuse Technology Assessment effort for DISC4. This effort involves the analysis of twelve Army-wide domains to determine the degree in which each domain is consistent with the C4I technical architecture, including the potential reuse among Army components, development of an Army-wide implementation plan to provide for the systematic migration to the architecture, and execution of the plan in cooperation with DISC4 and various Army-wide components </p> <p> ARMY ENTERPRISE ARCHITECTURE (AEA): The AEA directly supports the necessity to address business process improvements, develop interoperable information resources, recommend protocols and standards for information technology and plan an interoperable C4I architecture as identified in the National Defense Authorization Act for FY96. In addition the AEA works directly to establish the information framework to support the FY96-03 Defense Planning Guidance in development of a C4I Surveillance Reconnaissance (C4ISR) Architecture, The Army Plan, FY98-13 objectives and JCS Joint Vision 2010 to win the battlefield information war and dominate maneuver battle. FY 99 funds will provide the resources necessary for the on-going development of the AEA infrastructure and procure hardware, software, and modeling tools necessary to provide both the combat and the material development communities with integrated systems critical to the development of a shared data environment. These funds will target specifically the Systems and Operational Architecture production tools. The objective products include standard data and activity models, and Systems Architecture components for Joint and Echelons-above-Corps (EAC) operations and training. This infrastructure will substantially improve the Army's ability to produce and share dynamic models, based on doctrinally developed static representations of information exchange requirements. These tools are needed to continue the migration of materiel developers programs (weapons, C4I, and sustainment systems) to the DoD Common Operating Environment. The AEA infrastructure will maintain the Army's significant contribution to the DoD Data Standardization Program with an increased ability to share, reuse, and manage all data products within the Joint Community. Additionally, these funds will provide the tools necessary to develop the synthesis of a live with a virtual environment which will be essential for the C4I community to capitalize on the latest modeling and simulation technology. </p>		

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				MACOM AUTOMATION SYSTEMS (BE4162)
Program Elements for Code B Items	Code	Other Related Program Elements		
(Continuation)				
<p>ARMY WARFIGHTING EXPERIMENT (AWE): Funds support modeling, simulation and Joint Venture analysis. Funds purchase equipment that provide the capability for constructive, virtual and live simulation for examination of warfighting concepts across TRADOC's Doctrine, Training, Leader development, Organization, Materiel focused on Soldiers (DTLOMS). FY 99 funds purchase equipment which will augment current material used for ongoing TRADOC efforts to analyze information operations, design Force XXI divisions and brigades, support Operational/Systems Architecture development, evaluate the impact of Army light forces during deployment, explore ways to improve force projection, and enhance the Army contribution to the joint warfight. TRADOC funding purchases upgraded wide-area network communication devices and critical capabilities to the Joint Virtual Laboratory and Battle Lab/DOD Simulation Centers.</p>				

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature; MACOM AUTOMATION SYSTEMS (BE4162)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACOM Automation Systems:										
- FORSCOM Automation	A	1811	VAR	VAR	1378	VAR	VAR	2599	VAR	VAR
- USAREUR Automation	A	1254	VAR	VAR	731	VAR	VAR	791	VAR	VAR
- TRADOC Automation	A	10092	VAR	VAR	5040	VAR	VAR	3656	VAR	VAR
- AMC Automation	A	3068	VAR	VAR	2512	VAR	VAR	2014	VAR	VAR
- MDW Automation	A	1378	VAR	VAR	251	VAR	VAR	336	VAR	VAR
- EUSA Automation	A							396	VAR	VAR
- USARPAC Automation	A	733	VAR	VAR	310	VAR	VAR	340	VAR	VAR
- USAREC Automation	A	496	VAR	VAR	642	VAR	VAR	579	VAR	VAR
- Army Signal Command Automation	A	1918	VAR	VAR	982	VAR	VAR	916	VAR	VAR
- INSCOM Automation	A	412	VAR	VAR	126	VAR	VAR	100	VAR	VAR
- CIDC Automation	A	853	VAR	VAR	238	VAR	VAR			
- Medical Facility LANS	A	788	VAR	VAR	636	VAR	VAR			
- RDAISA Automation	A	236	VAR	VAR	157	VAR	VAR			
- NGB	A	5800	VAR	VAR						
- AWC Automation	A	61	VAR	VAR	591	VAR	VAR	121	VAR	108
SUBTOTAL		28900			13594			11801		11977
Small Computer Program	A	283	VAR	VAR	241	VAR	VAR			
Army Electronic Commerce	A							591	VAR	10958
Army Reuse Center (ARC)	A	391	VAR	VAR	220	VAR	VAR	500	VAR	410
Army Enterprise Architecture (AEA)	A				1491	VAR	VAR	1282	VAR	1407
Software Engr Mod Prg (SEMP)	A	1317	VAR	VAR						
EUCOM Marshall Hall Center	A				1006	VAR	VAR			
LAM		275	VAR	VAR						
Army Warfighting Exp (AWE)	A				975	VAR	VAR	7138	VAR	5966
Logistic Integration Database (LIDB)	A				1000	VAR	VAR			
TOTAL		31166			18527			21312		30718

Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:				Date: February 1998				
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FORSCOM Automation - FORCOM Cmd Data Base - Office/Departmental Local Area Network - FORSCOM Automation Modernization Effort FY 96 FY 97 FY 98 FY 99			Datacom/VAR*** Datacom VAR**** TBS		C/FP C/FP C/FP MIPR	FORSCOM FORSCOM CECOM FORSCOM	Jan-96 Dec-97 VAR* Dec-98	VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
USAREUR Automation - File Server/peripherals - Software - Network Hardware Upgrade FY 96 FY 97 FY 98 FY 99			VAR** VAR** VAR** VAR**		C/FP C/FP C/FP C/FP	Wiesbaden, Germany, VAR Wiesbaden, Germany, VAR Wiesbaden, Germany Wiesbaden, Germany	VAR* VAR* Dec-97 Dec-98	VAR* VAR* Apr-98 Apr-99	VAR VAR 4 5	VAR VAR 170 158	YES YES YES NO	NO NO NO NO	
TRADOC Automation - TFXI Distributed JANUS - VTT - Classroom XXI - Desktop VTC - IM Infrastructure - ATM - Models and Simulation													
REMARKS: Datacom - Burr Ridge, IL Ameridata - Atlanta GA IBN - New York, NY VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - MVP - Gainsville, VA; Small Computer Issue Activity - Local; Ray Communications - Bala Cynwyd, PA VAR - Unit costs and quantities vary by configuration. VAR*** Departmental LAN funding was sent to various NG Units and FORSCOM Installations VAR**** Ft Ewin Contract Office- CA; GTE Government Systems Corp - Tampa, FL; Naval Air Warfare Center, Aviation Division and existing GSA contracts.													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature:					
Equipment			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
Contractor and Location			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
Fiscal Years			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
WBS Cost Elements:			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
TRADOC Automation (cont)			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- ADV Sim 2 Concepts			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- IMMI			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- VAWWE			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 96			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 97			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 98			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 99			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
AMC Automation			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- Minicomputer System			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- Library System			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- DSI Node (LAM)			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- Departmental Local Area Network			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- PADDS			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
- C-DEX			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 96			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 97			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
Replace Non-Year 2000 Compliant Hardware			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 98			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
FY 99			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
REMARKS:			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
Hughes Trng - Arlington, TX			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
PRC - Planning Research Corp - Reston, VA			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
MICOM - Missile Command			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
TCA - TRADOC Contracting Agency			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
STRICOM - Simulation, Training and Installation Command			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
ATCOM - Aviation and Troop Command			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
VAR - Unit costs and quantities vary.			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	
VAR* - Multiple contracts awarded/Delivered throughout the year.			Contract Method and Type		Location of PCO		Award Date		MACOM AUTOMATION SYSTEMS (BE4162)	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Weapon System Type:					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)											
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
MDW Automation - Host Communication System - AFIC - Life Cycle Replacements - Van Noy Library System - LAN Connectivity		VAR** VAR** VAR** VAR**		C/FP C/FP C/FP C/FP		Ft Myer Ft Myer Ft Myer Ft Myer		VAR* VAR* VAR* VAR*		VAR* VAR* VAR* VAR*		VAR VAR VAR VAR		VAR VAR VAR VAR		YES YES YES YES		NO NO NO NO			
FY 96																					
FY 97																					
FY 98																					
FY 99																					
EUSA Automation - LAN/WAN Upgrade		VAR** VAR**		C/FP C/FP		USACCK USACCK		Jan-98 Jan-99		May-98 May-99		1 1		295 396		YES YES		NO NO			
FY 98																					
FY 99																					
USARPAC Automation Departmental Local Area Network		VAR** TBD TBD TBD		C/FP C/FP C/FP C/FP		ISC/Pearl Harbor ISC/Pearl Harbor ISC/Pearl Harbor ISC/Pearl Harbor		May-96 VAR* VAR* VAR*		Aug-96 VAR* VAR* VAR*		VAR VAR VAR VAR		VAR VAR VAR VAR		YES YES YES YES		NO NO NO NO			
FY 96																					
FY 97																					
FY 98																					
FY 99																					
REMARKS: AFIC - Armed Forces Inaugural Committee USACCK - USA Contracting Command Korea (CCK) VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - Gateway 2000 - N Sioux City, SD; ASAP Software - Buffalo Grove, IL; Advanced Logic Research - Irvine, CA; Bell Atlantic - Arlington, VA; Lyme Computer Sys - Lyme, NH; Government Tech - Chantilly, VA; PCs Complete - Marlborough, MA; Logcraft Info Sys - Exton, PA; Electronic Data Systems - Herndon, VA; Electronics System of Richmond - Arlington, VA; Advanced Computer Co - Rosslyn, VA; Integration Specialist Inc - Alexandria, VA; Campbell Services - Southfield, MI; Sharpe Army Depot - Lathrop, CA; Information System Management Activty. Ft Monmouth. NJ.																					

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4182)				
Contractor and Location					Award Date				
Contract Method and Type					Location of PCO				
Contractor and Location					Date of First Delivery				
Contract Method and Type					QTY				
Contract Method and Type					Unit Cost \$000				
Contract Method and Type					Specs Avail Now?				
Contract Method and Type					Date Revisn Avail				
Contract Method and Type					RFP Issue Date				
USAREC Automation - Recruiting Computer Systems FY 96 FY 97 FY 98 FY 99					VAR* DEC-96 NO VAR JAN-97 YES VAR FEB-98 YES VAR FEB-98 YES NO				
Army Signal Command Automation* - ASC ATM MIGRATION FY 96 FY 97 FY 98 FY 99					VAR* DEC-96 NO VAR JAN-97 YES VAR FEB-98 YES VAR FEB-98 YES NO				
- HQ ISC/SEC MDW STAMIS Processing Phase II FY 96					VAR* DEC-96 NO VAR JAN-97 YES VAR FEB-98 YES VAR FEB-98 YES NO				
5th Sig Cmd Automation - DPI Consolidation HW/SW FY 96 FY 97 FY 98 FY 99					VAR* DEC-96 NO VAR JAN-97 YES VAR FEB-98 YES VAR FEB-98 YES NO				
REMARKS:					ASCP - Army Small Computer Program VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - Procurement is accomplished primarily via standard requirements contracts. ATM - Asynchronous Transfer Mode RCO - Regional Contracting Office				

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics				Weapon System Type:				P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)						
Equipment				Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
WBS Cost Elements:														
Fiscal Years														
AWC Automation														
- War College LAN Upgrade														
FY 96				Wang		C/F/P	CECOM	Nov-95	Dec-95	1	61			
FY 97				Wang/LUCENT		C/F/P	CECOM	Jul-97	Aug-97	VAR	VAR	YES	NO	
FY 98				Wang		C/F/P	CECOM	Nov-97	Feb-98	1	121	YES	NO	
FY 99				Wang		C/F/P	CECOM	Nov-98	Feb-99	1	108	YES	NO	
INSCOM Automation														
- 513th LAN/WAN Systems														
FY 96				GTE		C/F/P	DCMAO Van Nuys	Jan-96	Feb-96	1	412			
FY 97				GTE		C/F/P	DCMAO Van Nuys	Jan-97	Feb-97	1	126	YES	NO	
FY 98				GTE		C/F/P	DCMAO Van Nuys	Jan-98	Feb-98	1	100	YES	NO	
FY 99				GTE		C/F/P	DCMAO Van Nuys	Jan-99	Feb-99	1	183	YES	NO	
CIDC Automation														
- Local Area Network (hardware/software)														
FY 96				ORACLE		C/F/P	SAM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97				ORACLE/SYSOREX		C/F/P	SAM	VAR*	VAR*	VAR	VAR	YES	NO	
Medical Facility LANS														
- Hardware/Software/Communication Upgrade														
FY 96				Daly Computers		C/F/P	DSSW	Jun-96	Jul-96	VAR	VAR	YES	NO	
FY 97				VAR***		C/F/P	DSSW	Feb-97	Mar-97	VAR	VAR	YES	NO	
				GTSI		C/F/P	DSSW	Apr-97	May-97	VAR	VAR			
				CORDANT		C/F/P	DSSW	Apr-97	May-97	VAR	VAR			
				ALCATEL NETWORK, SYS		C/F/P	CCO-FSH	May-97	Jun-97	VAR	VAR			
				GATEWAY 2000		C/F/P	CCO-FSH	May-97	Jun-97	VAR	VAR			
REMARKS:				DSSW - Defense Supply Service Washington SAM - Single Agency Manager CCO-FSH - Central Contracting Office, Ft Sam Houston, TX GTSI - Chantilly, VA Cordant - Reston, VA Alcatel Network Systems - Richardson, TX Gateway 2000 - North Sioux City, SD										

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics				Weapon System Type:		P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)															
Equipment		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
WBS Cost Elements: Fiscal Years																					
RDAISA Automation - Building Security System - High Speed Duplicator FY 96 - Network Modernization FY 97		VAR**		C/FP		ISC		Feb-96		Jul-96		VAR		VAR							
		DEC 8A		C/FP		OIS		Mar-97		Apr-97		1		157		YES		NO			
		PRC		C/FP		CECOM		VAR*		VAR*		VAR		VAR							
		DEC & Hewlett Packard		C/FP		CECOM		Feb-97		Apr-97		VAR		VAR							
Small Computer Program - Hardware & Software FY 96 FY 97		TBS		C/FP		CECOM		May-98		Jul-98		VAR		VAR		YES		NO			
		TBS		C/FP		CECOM		Dec-98		Mar-99		VAR		VAR		YES		NO			
Army Electronic Commerce - ADPE/Software/Communication Devices FY 98 FY 99																					
Army Reuse Center (ARC) - Hardware/Software Analysis Tools FY 96 FY 97 FY 98 FY 99		VAR**		C/FP		Ft Belvoir		VAR*		VAR*		VAR		VAR		YES		NO			
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*		VAR		VAR		YES		NO			
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*		VAR		VAR		YES		NO			
		TBS		C/FP		Ft Belvoir		VAR*		VAR*		VAR		VAR		YES		NO			
REMARKS: Hewlett Packard - Rockville, MD DEC - Digital Electronics Corp - Landover, MD PRC - Planning Research Corp - Reston, VA VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - DEC - Digital Electronics Corp - Landover, MD; Xerox - Rochester, NY VAR - Unit costs and quantities vary by configuration.																					
CECOM - Communications and Electronics Command																					

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Software Engr Mod Prg (SEMP) - Net Infrastructure FY 96		VAR**		C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
Army Enterprise Architecture (AEA) FY 97		VAR**		C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR**		C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR**		C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
EUCOM Marshall Hall Center STUDENT COMPUTER INIATIVE FY 97- Network Infrastructure and Library		COLSA/SSDC		C/FP	DAO-CECOM	VAR*	VAR	VAR	VAR	YES	NO	
LAM Automation FY 96 - Force XXI Simulation Center		COLSA/SSDC		C/FP	TRADOC/LAM Office	Jan-96	Mar-96	VAR	VAR			
Army Warfighting Exp (AWE) - Silicon Graphics Onyx Computers - Comm Hardware, Software & Peripherals FY 97		VAR***		C/FP	MICOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR***		C/FP	NAVAIR/Ft Leavenworth	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR***		C/FP	NAVAIR/Ft Leavenworth	VAR*	VAR*	VAR	VAR	YES	NO	
LOG Integration Data Base - ADPE Hardware FY 97		VAR****		GSA	LOGSA	VAR*	VAR	VAR	VAR	YES	NO	
REMARKS:												
SSDC - Strategic Space Defense Cmd											LAM - Louisiana Maneuvers	
COLSA, Inc - Huntsville, AL											ISSAA - Information Systems Selection and Acquisition Agency	
VAR - Unit costs and quantities vary by configuration.											DAO-CECOM - Defense Accounting Office, Communication & Electronic	
Command											GTE - Taunton, MA	
VAR* - Multiple contracts awarded/Delivered throughout the year.											LOGSA - Logistics Support Agency	
VAR** - Procurement is accomplished primarily via standard requirements contracts.											VAR*** - DLT Solutions-Herdon, VA; Worldwide Technology-St Louis, MO	
VAR*** - Silicon Graphics - Silver Springs, MD; Various standard requirements contracts.												
PM - AIS Project Manager. Automated Information Systems. Theater Systems Integration												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												PERSONNEL AUTOMATION SYSTEMS (BE4164)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Initial Spares													
Total Proc Cost	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This budget line provides for the purchase of automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System Architecture and the Army's Modernization Plan.

JUSTIFICATION:

PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A): PES-A is an ADP acquisition and redesign/implementation program which ensures that an adequate, modern, state-of-the-art automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the War Fighter. The PES-A supports all five personnel functions, including recruiting, and is key to execution of day-to-day operations within the Army (e.g., strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization). It is the vehicle by which personnel are managed and information is provided to DOD, and ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PERSCOM), Army Reserve Personnel Center (ARPERCEN), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Processing Command (MEPCOM), a joint command for which the Army is the executive agent. It fits into the Army Enterprise Strategy, supporting the modernization of Power Projection Platforms. It is fully compatible with and supports DOD's Enterprise Strategy/Corporate Information Management (CIM) initiative, and the Administration's Information Superhighway Initiative. FY 99 funds will buy automation infrastructure, communications capability, and system modeling to support the personnel community consolidation initiative and distributed processing capabilities. Continued implementation of PES-A, will be a major step toward providing information as a force multiplier and integration of the Army's personnel community, with emphasis on system interoperability and Total Army Personnel Data Base permitting integration of Active, Reserve, Civilian, and Army National Guard Systems.

USMEPCOM JOINT COMPUTER CENTER (JCC): A memorandum of understanding between DOD and Selective Service System (SSS) formalized the establishment of the JCC where automatic data processing resources can be shared by USMEPCOM and SSS. The JCC mission includes the management and enhancement of shared resources, in full support of USMEPCOM and SSS peacetime and mobilization mission requirements. FY 99 funds will procure new technology tape drive storage systems and operating system software which support USMEPCOM and SSS peace time growth requirements.

Exhibit P-40C Budget Item Justification Sheet		Date February 1998	
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature PERSONNEL AUTOMATION SYSTEMS (BE4164)	
Program Elements for Code B Items		Code	Other Related Program Elements
<p>(Continuation)</p> <p>US MILITARY ACADEMY (USMA) IMA MODERNIZATION: The USMA is an accredited institution of higher learning. To maintain its accreditation standards and to instruct/prepare future Army Leaders to operate in the sophisticated high-tech world of modern warfare, it must employ in its classrooms/laboratories the latest technology/instructional tools available. Mini/microcomputers supporting the academic departments, must periodically be replaced as they become technologically obsolete or uneconomical to repair. FY 99 funding continues conversion of classrooms, upgrading classroom audio and video facilities. Additionally, funds will procure digital imaging and photography technology, USMA wide area network (WAN) upgrades, and expanded library software.</p> <p>USMEPCOM INTEGRATED RESOURCE SYSTEM (MIRS): The purpose of US Military Entrance Processing Command (USMEPCOM) MIRS is to provide the automation and communication capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Armed Services. The MIRS will be the cornerstone for a DoD-wide military accession system, Joint Recruiting Information Support System (JRISS), incorporating the concept of electronic data sharing using standard DoD data elements between USMEPCOM and all the Armed Services recruiting commands, greatly reducing redundant data entry. MIRS continues to improve Military Entrance Processing Stations (MEPS) operations by automating functions previously done manually. This project also includes Computerized Adaptive Testing-Armed Services Vocational Aptitude Battery (CAT-ASVAB), the automated version of the ASVAB test given to determine applicants mental abilities. FY99 funding is critical to keep the current MIRS hardware running by buying memory and to support the additional DoD and service requirements as well as improve operations in the 65 Military Entrance Processing Stations (MEPS) throughout the United States. FY 99 funding will also be used to start the process of determining replacement equipment for the current MIRS equipment which is rapidly becoming technologically obsolete and if not replaced in a timely fashion will be uneconomical to repair and will not be able to meet future DoD and service requirements.</p> <p>DEFENSE CIVILIAN PERSONNEL DATA SYSTEM MODERNIZATION (DCPDS MOD): Army DCPDS MOD efforts will support the standardization of business processes in the Civilian Personnel functional area and regionalization of Civilian Personnel Offices. DCPDS MOD OPA expenditures provide automation infrastructure to support fielding of this DOD-wide system to Army activities receiving the DCPDS MOD capability. Automation infrastructure fielded to Army activities will consist of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial Off the Shelf (COTS) software, (operating system, DBMS, office automation, etc.) fielded to ten Army Regional Service Centers (RSCs) and more than 100 subordinate installation level Customer Support Units (CSUs). Army automation infrastructure will be compatible with the DOD DCPDS MOD application software and integrate with the OSE architecture at Army's sustaining base sites. Procurement strategy makes maximum use of existing contracts. This effort is projected to improve DOD wide productivity over 30% in the civilian personnel management functional area in order to accommodate reductions already applied to outyear Army Budget. FY 99 funds procure automation infrastructure to support the necessary productivity enhancements. The FY 99 infrastructure procurement completes initial Army DCPDS-MOD fieldings and provides necessary upgrades to support Air Force fielding in FY 99 of the objective DCPDS-MOD application software baseline to Army Sites.</p> <p>JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS): The JRISS program has recently ceased to be a joint development effort. The program is being rescoped to emphasize Army recruiting requirements. Efforts will continue on deployment of this capability and implementation of Army specific recruiting automation enhancements which can be integrated with the Joint Defense Integrated Military Human Resources System (DIMHRS) when implemented. The rescoped program will support the standardization of business processes in the Army recruiting functional area and systems will be fielded to all levels of the Army recruiting structure. The rescoped program will aid the Army in its new accession goals in a era of steadily dwindling resources and shrinking pool of military service applicants. Key system features include standardized data, mobility for marketing, testing, data collections and reporting, one time data entry, automated leads distribution, and system generated reports. OPA expenditures provide automation infrastructure to support development of software for the Army system and for fielding to Army users. FY99 funds support initial acquisition of laptops for the final two Army Recruiting Brigades and continue acquisition of laptops for two Recruiting Brigades started in FY98. Funds will also procure system wide automation infrastructure, to include Local Area Networks (LANs), workstations, servers and printers.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ACBERS	A		626	VAR	VAR	390	VAR	VAR						
Personnel Enterprise System-Automation (PES-A)	A		514	VAR	VAR	6998	VAR	VAR	4863	VAR	VAR	5769	VAR	VAR
MEPCOM JCC	A					1100	VAR	VAR	678	VAR	VAR	695	VAR	VAR
USMA IMA Modernization	A		2503	VAR	VAR	2219	VAR	VAR	2357	VAR	VAR	2420	VAR	VAR
MEPCOM Integrated Resource System (MIRS)	A		3531	VAR	VAR	322	VAR	VAR	461	VAR	VAR	538	VAR	VAR
DCPDS MOD	A		22194	VAR	VAR	4579	VAR	VAR	4339	VAR	VAR	403	VAR	VAR
Joint Recruiting Information Support (JRISS)	A		2278	VAR	VAR	19266	VAR	VAR	17839	VAR	VAR	9931	VAR	VAR
TOTAL			31646			34874			30537			19756		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
Equipment					P-1 Line Item Nomenclature:				
WBS Cost Elements: Fiscal Years					PERSONNEL AUTOMATION SYSTEMS (BE4164)				
Contract Method and Type	Contractor and Location	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
EDS EDS	EDS EDS	Ft Monmouth Ft Monmouth	Feb-96 Feb-97	Jun-96 Apr-97	VAR 1	VAR 390	YES YES	NO NO	
Personnel Enterprise System-Automation (PES-A) HW/SW Upgrades									
FY 96	EDS	USAISSAA/GSA	Mar-96	Sep-96	1	514	YES	NO	
FY 97	EDS	USAISSAA/GSA	Mar-97	Oct-97	VAR	VAR	YES	NO	
FY 98	VARIOUS	GSA/DSSW	Mar-98	Oct-98	VAR	VAR	YES	NO	
FY 99	VARIOUS	GSA/DSSW/FEDSIM	Mar-99	Oct-99	VAR	VAR	YES	NO	
MEPCOM JCC Mainframe Software/DASD/Mainframe Upgrade/ Printers/Tape Drives									
FY 97	Rock Island, IL	GSA	Feb-97	Mar-97	VAR	VAR	YES	NO	
FY 98	Rock Island, IL	GSA	Feb-98	Mar-98	VAR	VAR	YES	NO	
FY 99	Rock Island, IL	GSA	Jan-99	Feb-99	VAR	VAR	YES	NO	
USMA IMA Modernization Computer Lab HW/SW Upgrade/Library System/ Servers									
FY 96	VAR*	USMA/ISMA	VAR	VAR	VAR	VAR	YES	NO	
FY 97	VAR*	USMA	VAR	VAR	VAR	VAR	YES	NO	
FY 98	VAR*	USMA	VAR	VAR	VAR	VAR	YES	NO	
FY 99	VAR*	USMA	VAR	VAR	VAR	VAR	YES	NO	
REMARKS:					USAISSAA - Information Systems Selection and Acquisition Agency SMC - Super Minicomputer Contract GSA - General Services Administration ISMA - Information Systems Management Activity, Ft Monmouth, NJ.				
EDS - Electronic Data Systems - Herndon, VA USMA - US Military Academy IBM - Oakbrook, IL Computer Sales International - St Clair Shores, MN VAR* - Unit costs and quantities vary by configuration. VAR* - Halifax Engineering - Halifax, VA; Computer Science Dev Corp - Chantilly, VA; Dice America - Suffern, NY; IHS Logicaft - Nashua, NH, EDS - Plano, TX; Manufacturing Tech - Ft Walton, FL; Applied Info Service - Arlington, VA; General Info Tech - New York, NY; Pruitt Office Machine, Decatur, AL. DSSW-Defense Supply Services Washington, Washington, DC.									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type: P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
MEPCOM Interactive Resource System (MIRS) CAT-ASVAB Hw/Sw/Furniture FY 96 Hardware/Software Upgrade FY 96 FY 97 FY 98 FY 99	VAR***	C/FP	GSA	VAR*	VAR*	VAR	VAR	YES	NO	
	Lockheed-Martin	C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
	Lockheed-Martin	C/FP	CAC-WOO	Jan-97	Mar-97	VAR	VAR	YES	NO	
	Lockheed-Martin	C/FP	CAC-WOO	Jan-98	Mar-98	VAR	VAR	YES	NO	
	Lockheed-Martin	C/FP	CAC-WOO	Jan-99	Mar-99	VAR	VAR	YES	NO	
DCPDS MOD Hardware/Software Upgrade FY 96 FY 97 FY 98 FY 99	VAR**	C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
Joint Recruiting Information Support (JRISS) - Hardware/Software Upgrades - Data/Process/Application Data Servers - Workstations - COTS Software FY 96 FY 97 FY 98 FY 99	Lockheed-Martin	C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
	VAR****	C/FP	GSA	Aug-97	Oct-97	VAR	VAR	YES	NO	
	VAR****	C/FP	GSA	Mar-98	Jul-98	VAR	VAR	YES	NO	
	VAR****	C/FP	GSA	Jan-99	Jul-99	VAR	VAR	YES	NO	
REMARKS: Lockheed-Martin - Oswego, NY VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - PRC - Planning Research Corp - Reston, VA; EDS - Electronic Data Systems - Herndon, VA; Lockheed-Martin - Oswego, NY VAR*** - UNICOR - Lexington, KY; Lockheed-Martin - Oswego, NY; GSA Contractors USAISSAA - Information Systems Selection and Acquisition Agency CAC-WOO - CECOM Acquisition Center-Washington Operations Office VAR**** TELOS, Ashburn, VA. DEL. Austin, TX: GMR, Manassas, VA										
SYSOREX Information Systems, Inc., Fairfax, VA GTSI -Government Tech Services, Inc., Chantilly, VA										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												LOGISTICS AUTOMATION SYSTEMS (BE4166)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Less FY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Initial Spares												
Total Proc Cost	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line funds automation initiatives which support transportation, cargo movement, and resupply initiatives under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and resupply.

JUSTIFICATION: WORLDWIDE PORT SYSTEM (WPS) is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and in transit visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provide movement control support to the Army's Strategic Mobility Program, initiated as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated MRS. When fully fielded, WPS will support MTMC ocean terminals, US Navy port activities worldwide, FORSCOM Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in transit visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AISs that support ocean terminal management and cargo documentation missions during peace and war. The replaced AISs include the obsolete Terminal Management System in CONUS, and the Army Standard Port System - Enhanced, whose significant deficiencies were identified during Operation Desert Shield/Storm. FY 99 funds buy hardware and software to continue fielding WPS to selected sites.

AUTOMATED AIRLOAD PLANNING SYSTEM (AALPS): AALPS is a knowledge based "expert system" that assists user with aircraft planning. The Army originally developed AALPS as the Automated Air Load Planning System (AALPS) to provide a stand alone expert tool for Army load planning and deploying units. AALPS uses an artificial intelligence methodology to load plan for aircraft in near real time. The system takes data input of equipment and personnel, establishes gross load planning information, and quickly produces fully executable (certified) load plans for either a single mission, brigade sized deployment or multiple division sized airlift. AALPS is an approved migration system, and though it is a joint system, the Army is designated as the proponent, responsible for developing, implementing and fielding it to the services. FY 99 funds will be used to purchase hardware and software for Army users, supplying them with a deployable automated platform for developing load plans and manifests, which will be used in air deployments and in determining airlift requirements during contingency planning operations. Fielding sites are Ft Bragg, Ft Campbell, Ft Stewart, Ft Benning, Ft Drum, Ft Hood, Ft Lewis, USAREUR, Schofield Barracks, Ft Eustis, Ft Bliss, Ft Riley, Ft Sill, Ft Carson, Ft Richardson, Ft Polk, Ft Irwin, Ft Huachuca, Ft Lee, Ft McCov, Ft McPherson, and Ft Dix.

<div> <div>Exhibit P-40C Budget Item Justification Sheet</div> <div>Date</div> <div>February 1998</div> </div>		
<div> <div>Appropriation / Budget Activity/Serial No.</div> <div>OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</div> </div>	<div> <div>P-1 Item Nomenclature</div> <div>LOGISTICS AUTOMATION SYSTEMS (BE4166)</div> </div>	
<div> <div>Program Elements for Code B Items</div> <div></div> </div>	<div> <div>Code</div> <div></div> </div>	<div> <div>Other Related Program Elements</div> <div></div> </div>

(Continued)

INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): ICODES is being developed as a single standard common user stow planning system to meet DOD worldwide requirements. ICODES is a Military Traffic Management Command (MTMC) initiative, applying the principles of Artificial Intelligence to the function of planning loads and stowage of cargo and equipment aboard ocean vessels. ICODES will dramatically reduce the time (from 12 hours to under 30 minutes) and improve the accuracy of the ship stow planning process, enabling the user to concentrate on complex problems associated with port management and vessel loading. ICODES will support rapid deployment missions, planning cargo deployments from multiple seaports of embarkation and debarkation, as well as multiple ships. ICODES will also detail a three dimensional representation of the ship compartments, resolving the height limitations of the current system. Benefits from this system include: replacement of the current autonomous and redundant systems; improved responsiveness to changes and contingencies; ability to direct transfer stow plan files; streamlined and standardized terminal cargo training support; more effective allocation of marine cargo resources; comprehensive report capability; more precise cargo stow plans; and increased productivity. FY 99 funds procure the hardware and software necessary to begin fielding to authorized users.

AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): AIT is a suite of technologies that enables the automatic capture of source data rapidly and accurately and transfer the data to Automated Information Systems (AISs) with little or no human intervention, thereby enhancing the ability to identify, track, document, and control deploying and redeploying forces, equipment, personnel and sustainment cargo. AIT will streamline the Military Traffic Management Command and Army logistics business process and enhance its warfighting capability. The AIT devices purchased, configured and installed, will be integrated with other components of the DoD AIT infrastructure to improve interoperability. FY99 funds procure hand held readers and interrogators, business process servers for receiving, storing and forwarding AIT transactions and radio frequency identification tags.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)			Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99			
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000
	A	2945	VAR	VAR	927	VAR	VAR				
Transportation Coordinator Automated Command & Control Information System (TCACCIS)	A	1896	45	42	3005	15	200	1000	23	1007	46
Worldwide Port Systems (WPS)	A				553	92	6			1500	6
Automated Air Loading Planning System (AALPS)	A				5043	VAR	VAR				
TC AIMS II	A							126	1	200	50
Integrated Computerized Deployment System (ICODES)	A							862	VAR	271	VAR
Intransit Visibility/Automatic Identification Technology (ITV/AIT)	A							3995	VAR		
LIA Logistics Automation Systems	A										
TOTAL		4841			9528			5983		2978	

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Transportation Coordinator Automated Command & Control Information System (TCACCIS)		VAR** Pulsar Data Systems		C/FP C/FP	MTMC MTMC	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR	YES YES	NO NO	
Hardware/Software Upgrade												
FY 96												
FY 97												
Worldwide Port System (WPS)												
WPS Hardware & Software												
FY 96		CFS		C/FP	MTMC	Jul-96	Nov-96	45	42	YES	NO	
FY 97		CFS		C/FP	MTMC	Jul-97	Nov-97	15	200	YES	NO	
FY 98		CFS		C/FP	MTMC	Jul-98	Nov-98	23	44	YES	NO	
FY 99		CFS		C/FP	MTMC	Jul-99	Nov-99	22	45	YES	NO	
Automated Airload Planning System (AALPS)												
AALPS Hardware & Software												
FY 97		SYTEL, INC.		C/FP	MTMC	Jan-97	Mar-97	92	6	YES	NO	
FY 99		SYTEL, INC.		C/FP	MTMC	Jan-99	Mar-99	250	6	YES	NO	
TC AIMS - HP9000 Server/Workstations/Laptops												
FY 97		SYSOREX		C/FP	CAC-WOO	May-97	Aug-97	VAR	VAR	YES	NO	
Integrated Computerized Deployment System (ICODES)												
FY 98		CFS		C/FP	MTMC	Mar-98	May-98	10	104	YES	NO	
FY 99		CFS		C/FP	MTMC	Mar-99	May-99	4	50	YES	NO	
LIA Logistics Automation Systems												
FY 98		Quality Research		C/FP	CECOM	Mar-98	May-98	VAR	VAR	YES	NO	
ITV/AIT												
FY98		Savi Tech		C/FP	MTMC	Feb-98	May-98	VAR	VAR	YES	NO	
FY99		Savi Tech		C/FP	MTMC	Feb-99	May-99	VAR	VAR	YES	NO	
REMARKS:												
Pulsar Data Systems - Lanham, MD		VAR** - Technology Management and Analysis Corp. - McLean, VA; Informix - Lenexa, KA;										
CFS - Computer Federal Systems - Richmond, VA		Pulsar Data Systems - Lanham, MD; IPI Gramtech - San Antonio, TX; Government										
SYSOREX-Information Systems, Inc., Fairfax, VA		Micro Resources - Manassas, VA										
MTMC - Military Traffic Management Command		SYTEL Inc. - Bethesda, MD										
VAR* - Multiple contracts awarded/Delivered throughout the year.		Quality Research - Huntsville AL										
VAR - Unit costs and quantities vary by configuration.		Savi Tech - Mountain View, CA										
CECOM - Communications and Electronics Command		CAC-WOO CECOM Acquisition Center, Washington Operations Office										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SUSTAINING BASE INFO SVC (SBIS) (BE4200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Initial Spares													
Total Proc Cost	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Sustaining Base Information Services (SBIS) program consists of up to 13 custom developed applications to be fielded to various Army installations. SBIS applications are designed to operate in an Open Systems Environment (OSE) compliant automated infrastructure maximizing the number of support suppliers while minimizing the total life cycle cost. Funding provides for complete infrastructure solutions to support the applications developed under SBIS, and it procures SBIS servers which are integrated with existing automation assets at each fielded site. SBIS provides required automation support to improve and standardize critical sustaining base business processes. Fielded software has become an integral part of readiness, mobilization and installation management. Developed applications enhance key elements of those support missions and enable consistent, timely data collection and dissemination, allowing better management to key areas of the Army Safety Program, security clearance status monitoring, the schoolhouse system, and range facility management.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Infrastructure to include: IBM R/S 6000 ProcServer(SBIS & ITP/ISM) IBM R/S 6000 Data Servers IBM R/S 6000 Application Data Servers Communications Infrastructure														
A			14518	VAR	VAR	22359	VAR	VAR	7000	VAR	VAR			
TOTAL			14518			22359			7000					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Workstations/Data Servers/Process Data Server COTS software/Associated Comm Infrastructure/ FY 96 FY 97	Lockheed-Martin Federal Lockheed-Martin Federal	C/FP C/FP	USAISSAA CAC - WOO	Jan-96 Jan-97 Jun-97 Sep-97	Mar-96 Mar-97 Aug-97 Nov-97	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
FY98	Lockheed-Martin Federal	C/FP	CAC-WOO	Feb-98	Apr-98	VAR	VAR	YES	NO	
REMARKS: Lockheed-Martin Federal Systems - Oswego, NY VAR - Unit costs vary by configuration. Quantities vary to meet specific needs at a variety of functional work centers. USAISSAA - Information Systems Selection and Acquisition Agency CAC - WOO - CECOM Acquisition Center - Washington Operating Office										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										JOINT COMPUTER AIDED ACQ & LOG SPT (WA1000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:		Other Related Program Elements:											
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Joint Computer-Aided Acquisition and Logistics Support (JCALS) system provides an infrastructure capable of integrating digitized technical data that supports the weapons systems acquisition and logistics life cycle. The system is data driven and provides an automated information systems architecture, independent of application. JCALS will initially meet the Services' goal of automating technical manual processes and functions. The JCALS architecture provides a distributed, open systems environment that makes extensive use of both industry and Government standards. The architecture is designed for flexibility and growth, and is capable of accommodating additional system requirements, technological improvements and new functionality.

At the JCALS sites, hardware and software configurations are dependent on each site's organization and functions, processing needs and role in the overall system. The system provides local and wide area communications processing, distributes, manages, updates and replicates data throughout the system and delivers the applications and functions to the users' workstations. The system architecture includes a central site for user support, system monitoring, life cycle software support, maintenance and troubleshooting.

JUSTIFICATION: FY 99 funds support deployment of the JCALS capability to high priority technical manual users at 50 joint Service sites. The DOD approved site list is extensive, including service depots, installations and schools.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	cd	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Joint Computer Aided Aquisition and Log Systems (JCALS)													
Hardware Investment													
	A				11548	*16	VAR	20869	*26	VAR	30077	*50	VAR
Software Investment													
	A				5280	*16	VAR	8416	*26	VAR	9160	*50	VAR
Site Activation													
	A				5083	*16	VAR	4927	*26	VAR	4800	*50	VAR
Quantities reflect number of sites. VAR: Units costs vary by configuration.													
TOTAL					21911			34212			44037		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Joint Computer Aided Acquisition and Log Systems (JCALS) Hardware Investment	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
Software Investment	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
Site Activation	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
REMARKS: Quantities reflect # of sites. VAR - Unit costs vary by configuration CSC - Computer Systems Corp, Marlton, NJ CAC-WOO - CECOM Acquisition Center - Washington Operating Office										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Initial Spares												
Total Proc Cost	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively administer, manage and deploy Army National Guard and Army Reserve forces. The RCAS will link over 10,000 Guard and Reserve units at over 4,000 locations. The RCAS will support daily operational, training, and administrative tasks at all Guard and Reserve echelons, and will provide timely and accurate information to plan and support mobilization. The RCAS is an Acquisition Category 1AM program managed by the Chief, National Guard Bureau. The restructured RCAS contract was signed in January 1996. The redesigned system consists of commercial-off-the-shelf (COTS) hardware and office automation software, government off-the-shelf (GOTS) software, and new software applications integrated into an open system, PC-based architecture.

JUSTIFICATION: The RCAS Mission Needs Statement (MNS) was approved on 5 March 1996. Program goals and functional requirements are described in the approved April 1996 RCAS Operational Concept Description (OCD). The RCAS program approach was approved by the RCAS General Officer Steering Committee (GOSC), the OSD MAISRC, and Congress. On 23 September 1996 a joint OSD and Army MAISRC Overarching Integrated Process Team (OIPT) chaired by OSD (C31 Acquisition) unanimously approved the fielding of the first increment of the RCAS hardware and software. Increment One will provide the Reserve Component with personal computers, network servers, office automation, and a nation-wide infrastructure that will support electronic mail and file transfer. On 24 November 1997 an Integrating Integrated Process Team (IIPT) approved full fielding of Increment 2 of the RCAS. This increment adds database servers to the infrastructure and logistics functionality associated with GOTS software to include Unit Level Logistics System (ULLS)-Ground, ULLS-S4, and Standard Property Book System-Redesign (SPBS-R). The annual requirements specified above support the development and fielding of the system in accordance with the approved schedule. FY98 is scheduled to field the system to 7 USAR commands and 9 ARNG states, principally in the midwest. FY99 is scheduled to field the system to 8 USAR commands and 9 ARNG states in the West and Southeast U.S.

Exhibit P-5a, Budget Procurement History and Planning										Date:			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature:				February 1998			
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
RCAS System													
FY96			Boeing Info Sys, Vienna, VA		Option	ISSAA	Oct-95	Oct-95	1	42196	Yes	No	
FY97			Boeing Info Sys, Vienna, VA		Option	CECOM (former ISSAA)	Oct-96	Oct-96	1	31936	Yes	No	
FY98			Boeing Info Sys, Vienna, VA		Option	CECOM (former ISSAA)	Oct-97	Oct-97	1	61355	Yes	No	
FY99			Boeing Info Sys, Vienna, VA		Option	CECOM (former ISSAA)	Oct-98	Oct-98	1	60553	Yes	No	
REMARKS: The RCAS is a "turn key" system, and as such, is considered one system. The quantity therefore is one. Source Selection for the Development and Deployment Phase was completed during the fourth quarter, FY 1991. Unit costs only reflect hardware and software acquisition costs. Other essential contract costs associated with the development and fielding of the system are not included in the unit costs. Contract award dates are for annual renewals of the base contract awarded in 1991													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										AFRTS (BZ8480)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Initial Spares													
Total Proc Cost	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: The Army Broadcasting Service (ABS) is the DOD Executive Agent for the Army's Armed Forces Radio and Television Service (AFRTS) operations. AFRTS provides overseas warfighting Commanders-in-Chief (CINCs) with radio and television mass communications during peacetime, emergency, contingency and wartime operations in accordance with DOD Directive 5122.10, and serves DOD personnel overseas with American language news, command information and entertainment programming. Geographical areas served by Army AFRTS facilities are Germany, England, Scotland, Italy, Spain, the Middle East (including the Sinai, Saudi Arabia and Kuwait), Korea, Central and South America, and the Marshall Islands. Four Army radio and television networks, consisting of approximately 360 radio and television facilities, broadcast continuous 24-hour programming to nearly 500,000 soldiers, sailors, airmen, marines, DOD civilians and their families worldwide. AFRTS is the only mass communications available to overseas commanders to communicate time-sensitive emergency health and welfare announcements, command information and news. Overseas wartime operational CINCs consider AFRTS a battlefield support function that is critical in maintaining and enhancing the morale, readiness, and well-being of overseas troops, DOD personnel and their families. Overseas availability of the AFRTS communications service has become increasingly important to disseminate timely information as the Army downsizes and shifts resources in support of contingency, peace keeping and wartime operations such as Desert Shield/Storm and Operations Just Cause, Restore Hope, Provide Promise, Safe Haven, and Joint Endeavor. Congress mandates that AFRTS provide the same type of radio and television service to personnel overseas which is available to American citizens in the United States.</p> <p>JUSTIFICATION: FY 99 funds purchase commercial video switching/control systems and a video server system. Equipment purchases support fixed facilities and full spectrum contingency operations such as Desert Storm, Operation Deny Flight, Operation Support Hope (Rwanda, Uganda, Zaire), PREPO AFLOAT, Joint Task Force Bravo (Honduras), Zagreb, Macedonia and Bosnia to ensure warfighting CINCs have required AFRTS resources to execute wartime and contingency/emergency information needs. In addition to health, safety and quality of life issues, "Observations and Lessons Learned, Operation Desert Storm," validated Army AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS, through its primary mission of command information, serves as an information conduit for the battlefield commander. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or other services and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE) troop strength reductions in Korea and overseas base closures have been considered and do not impact the equipment required to sustain the basic broadcast capability to remaining forces.</p>													

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: AFRTS (B28480)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A		53	1	53	1705	*11	VAR	119	1
American Forces Network Europe Replacement Equipment								162	1
A		393	VAR	VAR	440	*2	VAR	327	2
American Forces Network Korea Replacement Equipment								325	2
A					238	1	238		
Southern Command Network Replace Equipment							#REF!		
TOTAL		446			2383			446	
								487	

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			Date: February 1998		
P-1 Line Item Nomenclature: AFRTS (B28480)										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
American Forces Network Europe Replacement Equipment FY 96 FY 97 FY 98 FY 99	Nautel Maine, Inc AVID Technology AVID Technology AVID Technology	C/FP	TASA	Nov-95	Jan-96	1	53	YES	NO	
		C/FP	TASA	Dec-96	Aug-97	11	VAR	YES	NO	
		C/FP	TASA	Dec-96	VAR	1	119	YES	NO	
		C/FP	TASA	Dec-96	VAR	1	162	YES	NO	
American Forces Network Korea Replacement Equipment FY 96 FY 97 FY 98 FY 99	VAR* AVID Technology AVID Technology AVID Technology	C/FP	TASA	VAR	VAR	VAR	VAR	YES	NO	
		C/FP	TASA	Dec-96	Aug-97	2	VAR	YES	NO	
		C/FP	TASA	Dec-96	VAR	2	164	YES	NO	
		C/FP	TASA	Dec-96	VAR	2	163	YES	NO	
Southern Command Network FY 97	AVID Technology	C/FP	TASA	Dec-96	Aug-97	1	238	YES	NO	
REMARKS: VAR* - Equipment items are grouped into bulk buy contracts, therefore, the number of contacts and the number of items do not correspond. This list of contractors is too voluminous to address each on this form. T-ASA - Television-Audio Support Activity Nautel Maine Inc, Bangor, ME AVID Technology, Tewksburg, MA										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		ITEMS LESS THAN \$2.0M (AV) (BK5289)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	113.7	4.1	4.4	2.1	2.5	4.6	10.6	11.2	11.4	11.7	0.0	176.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.7	4.1	4.4	2.1	2.5	4.6	10.6	11.2	11.4	11.7	0.0	176.4
Initial Spares												
Total Proc Cost	113.7	4.1	4.4	2.1	2.5	4.6	10.6	11.2	11.4	11.7	0.0	176.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports visual information (VI) processes for all MACOMs and HQDA Field Operating Agencies (FOAs). Department of Defense (DOD)/Army authorized VI activities provide audio-visually-based products and services to support Armywide training and readiness, force development, mobilization, health, safety, documentation of diagnostics for medical, historical, and professional information. VI support includes imagery for installation power projection platforms, video productions (especially for Military Occupation Skill (MOS) training and readiness safety and intelligence), electronic imaging, and photography (including DA official photos). VI equipment acquired with this budget line provides commanders with video, photography, electronic imaging, audio, and other computer generated media which can be integrated to convey real time, two-way information throughout the chain of command.

All equipment has been approved for purchase through the Requirements process and included in the Visual Information Systems Program (VISP). The VISP Program is the only means for commanders to procure, replace or augment their VI investment systems and equipment. The equipment in the VISP has been reviewed and prioritized, both by MACOMs, and Headquarters, Department of Army, Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4), "Obtain a family of information systems to meet the needs of all disciplines ... developed in the context of approved information models and architecture." Funds will purchase equipment to support the transition to electronic imaging (away from hazardous chemical processes) and replace equipment past its life cycle for commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff, Office of the Secretary of Defense, the Pentagon, other government agencies in the National Capital Region, as well as the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training.

JUSTIFICATION: FY 99 funds provide VI equipment for Army elements to directly support the warfighter. The equipment to be purchased is listed in the associated FY VISP acquisition sequence. Funds will acquire replacement VI investment equipment/systems to produce training materials and other VI products to support the warfighter. Existing equipment is obsolete, requiring excessive maintenance dollars and long unnecessary "throughput" times.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (AV) (BK5289)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.	A	4102	VAR	VAR	2096	VAR	VAR	2547	VAR	VAR	4597	VAR	VAR
	A	275	VAR	VAR									
SOUTHCOM VTC													
TOTAL		4377			2096			2547			4597		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (AV) (BK5289)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing. FY 96 FY 97 FY 98 FY 99	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
	SRA	C/FP	ESCI / ICDX	VAR	VAR	VAR	VAR	YES	NO	
SOUTHCOM FY 96										

REMARKS: *The various items of Visual Information (VI) Equipment are listed in the Visual Information System Program (VISP) for the year indicated. Because some equipment items are grouped into a bulk buy contract, the number of contracts and the number of items do not correspond.
 ESCI / ICDX - Electronics Systems Center/ICDX, Hanscom AFB, MA
 SRA - Systems Research Applications International, Arlington, VA

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				CALIBRATION SETS EQUIPMENT (BZ5289)								
Program Elements for Code B Items:				Other Related Program Elements:								
Code:				A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Initial Spares												
Total Proc Cost	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Calibration Sets Equipment comprises calibration standards (hardware), accessories, and repair equipment required to perform the Army-wide test, measurement, and diagnostic equipment (TMDE) calibration and repair mission. This equipment provides for accuracy verification of TMDE by maintaining legal traceability to standards established and maintained by the U.S. National Institute of Standards and Technology. The AN/GSM-286 and AN/GSM-287 Calibration Sets and the Reference Calibration Sets are an integral part of the Army calibration system and are used by direct support/general support maintenance units worldwide. This program supports the TMDE required to assure the operability, accuracy, and effectiveness of the Army's weapon systems.

JUSTIFICATION: The Calibration Sets Equipment funding provides for replacement of obsolete and worn-out calibration standards and for procurement of state-of-the-art equipment required to support new and technologically advanced weapon systems such as the Multiple Launch Rocket System, Apache, Bradley Fighting Vehicle, and Patriot. The calibration equipment is required to ensure the Army's weapon systems are maintained in the proper state of readiness.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: CALIBRATION SETS EQUIPMENT (BZ5269)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware:													
Pneumatic Pressure Standard													
Scope/Meter (50Mhz)		711	194	4									
Gage Block Comparator		258	200	1									
Amplifier (Model 5725A)		205	1	205									
Signal Generator Workstation		1621	172	9	196	20	10						
Signal Generator Workstation Aug		2741	97	28	2600	92	28						
Holt 250 Exciter		1247	97	13	1183	92	13						
Pressure Calibration System					395	100	4						
100" Mercury Manometer					279	6	47						
AC Volt Calibrator					298	1	298						
Extremity Dosimetry System					381	19	20						
Wattmeter RF Amplifier					382	1	382						
Acquisitions Less than \$200,000		2160			1849	55	34						
Government Engineering/Support		1850			1416								
Fielding (New Equipment Training)		155			1850								
TOTAL		10948			10984								

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
Pneumatic Pressure Standard FY 96				C/FP	MICOM	Dec-95	Sep-96	194	4
Scope/Meter (50Mhz) FY 96				C/FP	MICOM	Mar-96	Dec-96	200	1
Gage Block Comparator FY 96				C/FP	MICOM	Mar-96	Sep-96	1	205
Amplifier (Model 5725A) FY 96				SS/FP	MICOM	Feb-96	Jun-96	172	9
FY 97				SS/Option	MICOM	Nov-96	Apr-97	20	10
Signal Generator Workstation FY 96				MIPR	Air Force	Jan-96	Apr-96	97	28
FY 97				MIPR	Air Force	Jan-97	Mar-97	92	28
Signal Generator Workstation Augmentation FY 96				SS/FP	MICOM	Feb-96	Apr-96	97	13
FY 97				SS/Option	MICOM	Dec-96	Mar-97	92	13
Holt 250 Exciter FY 97				SS/FP	MICOM	Feb-97	May-97	100	4
Pressure Calibration System FY 97				C/FP	MICOM	Jun-97	May-98	6	47
REMARKS: This item is funded in OPA3 beginning in FY 1998. The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above.									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature:						
				CALIBRATION SETS EQUIPMENT (BZ5269)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
100" Mercury Manometer FY 97	Schwein Engr, Pomona, CA	C/FP	MICOM	Jan-97	May-97	1	298			
AC Volt Calibrator FY 97	Fluke, Everett, WA	C/FP	MICOM	Dec-96	Jun-97	19	20			
Extremity Dosimetry System FY 97	Bicron Tech, Solon, OH	C/FP	MICOM	Mar-97	Aug-97	1	382			
Wattmeter RF Amplifier FY 97	Antenna Research, Beltsville, MD	C/FP	MICOM	Mar-97	Sep-97	15	34			
FY 97	Antenna Research, Beltsville, MD	C/Option	MICOM	Apr-97	Nov-97	40	34			
REMARKS: This item is funded in OPA3 beginning in FY 1998. The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE																									P-1 Item Nomenclature: CALIBRATION SETS EQUIPMENT (B25269)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
MFR	NAME / LOCATION	PRODUCTION RATES					REACH/DEL	MFR Number	ADMIN LEAD TIME					MFR	TOTAL	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		MIN.		1-8-5		MAX.			Prior 1 Oct.		After 1 Oct.		Prior 1 Oct.			After 1 Oct.		*These items are being procured by other customers from the same production line; therefore, production breaks shown do not represent production breaks at the contractors' facilities and orders lower than the 1-8-5 production rate are economical.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (KA4000)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1	
Initial Spares												
Total Proc Cost	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Integrated Family of Test Equipment (IFTE) is the Army's program to provide automatic test equipment capable of supporting multiple weapon systems. The IFTE systems provide electronic fault isolation, test, and repair capabilities at all levels of maintenance, and do it more cost effectively than system-specific testers. The IFTE family consists of three systems: The Base Shop Test Facility for direct and general support, the Contact Test Set (CTS) and follow-on CTS (Soldier Portable On-System Repair Tool) for organizational support, and the Electro-Optics Test Facility for electro-optical support. The following weapon systems depend in whole or in part upon IFTE for maintenance support: Abrams, Avenger, Kiowa Warrior, Longbow Apache, Multiple Launch Rocket System, Paladin, Sentinel, Joint Tactical Unmanned Aerial Vehicle, Army Tactical Missile System, Enhanced Position Location Reporting System, Blackhawk and Chinook helicopters, and the Army's entire fleet of diesel engine powered wheeled and tracked vehicles.

JUSTIFICATION: The IFTE has been designated the Army's standard family of automatic test equipment (one of two Department of Defense standard families), and its use by weapon system developers is mandated by the Army Acquisition Executive. The capability of IFTE to support many different weapon systems at all maintenance levels generates substantial long-term operations and support cost savings by eliminating the need for more costly system-specific testers and by enabling retirement of the aging and increasingly unsupportable testers currently in the field. The IFTE provides the capability to support existing weapon systems as well as the even more electronics-intensive systems planned for future fielding.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (KA4000)				Weapon System Type:		Date: February 1998		
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99					
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
BASE SHOP TEST FACILITY*														
Hardware		A	15983	8	1998	12120	7	1731						
Other			19528			3294								
SUBTOTAL			35511			15414								
CONTACT TEST SET														
Hardware		A	1047	80	13	3415	517	7						
Other			906			993								
SUBTOTAL			1953			4408								
ELECTRO-OPTICS EQUIPMENT*														
Hardware		A	3400	2	1700	1700	1	1700						
Other			459			129								
SUBTOTAL			3859			1829								
TOTAL			41323			21651								

* P-1 quantities have not been updated to reflect the latest information.

* P-1 quantities have not been updated to reflect the latest information.

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			BASE SHOP TEST FACILITY (K18400)									
Program Elements for Code B Items:			Other Related Program Elements:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	65	14	6	7								92
Gross Cost	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.0
Initial Spares												
Total Proc Cost	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Base Shop Test Facility (BSTF) satisfies the Army's requirement for general purpose, automatic electronic testing at the direct and general support (DS/GS) levels of maintenance. It automatically identifies faults in electronic circuitry and enables immediate repair in the field through circuit card screening and replacement. The BSTF is fielded to DS/GS companies in division main support battalions, corps and non-divisional DS/GS maintenance companies, and aviation maintenance companies. The BSTF in the field is self-contained, consisting of the tester and associated test program sets mounted in two S-280 shelters, on two five-ton trucks, powered by two 60kW generators. The capabilities of this reconfigurable automatic test equipment can be expanded with minimal development to meet new test requirements. The following weapon systems are supported in whole or in part by the BSTF and its commercial equivalent which is used for factory and depot level support: Avenger, Kiowa Warrior, Multiple Launch Rocket System, Paladin, TOW, and Dragon.

JUSTIFICATION: The BSTF is an Army standard general-purpose tester and is required by Army Acquisition Executive policy to be used in support of weapon systems currently being developed. The BSTF is also facilitating the retirement of older, less reliable testers whose operating and support costs are becoming prohibitive. It will assume the workloads of and replace the Land Combat Support System, the Electronic Quality Assurance Test Equipment, and the Test Support System with substantial annual operations and support cost savings.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: BASE SHOP TEST FACILITY (K18400)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A		15983	8	1998	12120	7	1731		
Hardware*		1045			926				
Government Furnished Equipment		2473							
Test Program Sets		941							
Support Equipment		4006							
Engineering Changes/Retrofit Kits		30			31				
Quality Verification Testing		1926							
Interim Contractor Support		943			300				
Depot Support		339			100				
Fielding		980			620				
Production Engineering		1009			400				
Software Engineering/Support		359			175				
Configuration Management		180			155				
Quality Assurance		2709			474				
Logistics Products/Support		2588			113				
Contractual Engineering/Technical Services									
TOTAL		35511			15414				

* P-1 quantity for FY 1996 has not been updated
updated to reflect the latest information.

* P-1 quantity for FY 1996 has not been updated updated to reflect the latest information.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: BASE SHOP TEST FACILITY (K18400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Base Shop Test Facility										
FY 96	Northrop Grumman, Bethpage, NY	SS/FP	MICOM	Apr-96	Mar-98	7	1998			
FY 96	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Jun-96	Oct-98	1	1998			
FY 97	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Nov-96	Nov-98	6	1731			
FY 97	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Feb-97	May-99	1	1731			
REMARKS: This item is funded in OPA3 beginning in FY 1998. Unit prices fluctuate because of variances in the total quantities procured each year. Total quantities procured include purchases by other customers which are not reflected above. Configuration change in FY 1997 to remove radio frequency test components reduced the unit price for undelivered units from FY 1996 and FY 1997 contract awards and for future years' production.										

[illegible]

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998				
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:								CONTACT TEST SET (K51600)					
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:													
Program Elements for Code B Items:		Code:	A	FY 1996	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	2478			80	595		517			0.0	0.0	0.0	0.0		3670
Gross Cost	75.8			2.0	12.2		4.4	0.0	0.0	0.0	0.0	0.0	0.0		94.4
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	75.8			2.0	12.2		4.4	0.0	0.0	0.0	0.0	0.0	0.0		94.4
Initial Spares															
Total Proc Cost	75.8			2.0	12.2		4.4	0.0	0.0	0.0	0.0	0.0	0.0		94.4
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION: The Contact Test Set (CTS), and its follow-on CTS (Soldier Portable On-System Repair Tool) (SPORT), are lightweight, ruggedized portable on-system testers. They are used at all levels of maintenance to automatically diagnose weapon system operations, both electronic and automotive, and identify faulty components for immediate replacement. Because they are portable automatic testers with all the inherent computer capabilities and are used by many different maintenance specialties, the CTS and CTS(SPORT) are the Army's primary platforms for paperless interactive and electronic technical manuals and for downloading mission-critical software into weapon system on-board computer processors. The CTS is in wide use throughout the Army's ground combat and combat service support vehicle fleets as well as in the Army Aviation fleet of aircraft.

JUSTIFICATION: The CTS and CTS(SPORT) are the Army's standard on-system testers and are essential maintenance tools in the support plans for the Army's ground vehicle and aviation fleets.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2/ Communications and Electronics Equipment		P-1 Line Item Nomenclature: CONTACT TEST SET (K51600)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		1047	80	13	3415	517	7			
Hardware		57								
Accessories		398			517					
Production Engineering		287			386					
Software Engineering/Support		164			80					
Logistics Products/Support					10					
Fielding										
TOTAL		1953			4408					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: CONTACT TEST SET (K51600)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Contact Test Set FY 96 FY 97		Miltop Corp, Hope Hull, AL Miltop Corp, Hope Hull, AL		C/FP C/Option	MICOM MICOM	Jun-96 Dec-96	Jan-98 Mar-98	80 517	13 7			
REMARKS: This item is funded in OPA3 beginning in FY 1998. Unit cost for FY 1996 includes "first article" costs. Date of first delivery on the FY 1996 award was delayed by a protest of the contract award and by technical problems encountered in testing. Problems have been resolved, and no further delays are expected.												

February 1998

P-1 Item Nomenclature:

CONTACT TEST SET (K51600)

Fiscal Year 98

1000

[illegible]

Item No. 1 Page 11 of 15

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											ELECTRO-OPTIC EQUIPMENT (KA4100)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
Initial Spares												
Total Proc Cost	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Integrated Family of Test Equipment (IFTE) Electro-Optics Test Facility (EOTF) will satisfy test and diagnostic requirements for forward-looking infrared systems, thermal imaging devices, laser designators/range finders, television cameras and display systems, direct view optics systems, and trackers. The EOTF capitalizes on Army and Department of Defense (DoD) investments by integrating components from the IFTE Base Shop Test Facility and the Navy's standard electro-optics (EO) tester within a commercial open architecture for electronics. The IFTE EO program is in concert with Army and DoD policies on general-purpose test equipment. This equipment will support the Kiowa Warrior, Longbow Apache, and Improved Target Acquisition System initially and will be capable of replacing aging EO test equipment such as the Electronic Equipment Test Facility currently supporting other Army systems in the field when it becomes cost effective to do so.

JUSTIFICATION: The IFTE EOTF is the Army standard off-system EO automatic tester and is capable of supporting multiple weapon systems. It will provide significant operations and support cost savings over use of system-specific testers.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ELECTRO-OPTIC EQUIPMENT (KA4100)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A	Hardware*	3400	2	1700	1700	1	1700		
	Production Engineering	357			129				
	Quality Assurance	75							
	Contractual Engineering/Technical Services	27							
TOTAL		3859			1829				

* P-1 quantity has not been updated to reflect the latest information.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ELECTRO-OPTIC EQUIPMENT (KA4100)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Electro-Optics Test Facility FY 96 FY 97	Northrop Grumman, Bethpage, NY Northrop Grumman, Bethpage, NY	SS/Option SS/Option	MICOM MICOM	Mar-97 Mar-97	Jun-98 Aug-98	2 1	1700 1700			
REMARKS: This item is funded in OPA3 beginning in FY 1998.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												TEST EQUIPMENT MODERNIZATION (TEMOD) (BZ5270)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Initial Spares													
Total Proc Cost	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The objectives of the Test Equipment Modernization (TEMOD) program are to improve the materiel readiness of Army weapon systems; reduce test, measurement, and diagnostic equipment (TMDE) proliferation and obsolescence; and reduce TMDE support costs. These objectives are accomplished through acquisition of state-of-the-art test equipment to provide new measurement capabilities and to replace obsolete items in the existing inventory of general purpose test equipment at the direct and general support levels. The TEMOD program supports a wide variety of communications and electronics systems, and purchases test equipment that is essential to continued support of the Abrams tank, Bradley Fighting Vehicle, Apache helicopter, Patriot, Single-Channel Ground and Airborne Radio System, and other major weapons and support systems. The TEMOD procurements are primarily commercial items which have a significant impact on the readiness, power projection, safety, and training operations of active Army, Army Reserve, and National Guard units.

JUSTIFICATION: The TEMOD program procures general purpose test equipment to support Army weapons and support systems across all commodities. It has produced significant savings in TMDE acquisitions through centralized, economical procurements. The TEMOD program also reduces the Army's operating and support costs by minimizing proliferation of TMDE makes and models and by replacing obsolete, unsupportable equipment.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (ITEMOD) (BZ5270)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware:													
AN/USM-459B	A	213	180	1									
AN/GTM-12	A	2920	485	6									
TS-4463(IP	A	4284	138	31									
SG-1207A	A				3812	120	32						
Maintenance/Calibration Accessories		83			2018	350	6						
Publications/Technical Data		201			9								
Government Engineering/Support		1234			352								
Technical Assistance Services		33			1551								
Interim Contractor Support					108								
Fielding (Total Package Fielding)		125			150								
Fielding (New Equipment Training)		80			90								
TOTAL		9173			8150								

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998				
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (TEMOD) (B25270)										
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/USM-459B FY 96			Hewlett Packard, Santa Clara, CA		C/Option		MICOM		Feb-96	Apr-97	180	1			
AN/GTM-12 FY 96			ABC Digital Elect, Hillsdale, NJ		C/Option		MICOM		Jan-96	Sep-97	485	6			
TS-4463(IP) FY 96			Druck, Inc., New Fairfield, CT		SS/Option		MICOM		Jan-96	Jun-97	138	31			
FY 97			Druck, Inc., New Fairfield, CT		SS/Option		MICOM		Nov-96	Jan-98	120	32			
SG-1207A FY 97			Wayne Kerr, Woburn, MA		C/FP		MICOM		Mar-97	Nov-98	350	6			
REMARKS: This item is funded in OPA3 beginning in FY 1998.															

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												PRODUCTION BASE SUPPORT (C-E) (BF5400)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.0	178.2	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.0	178.2	
Initial Spares												
Total Proc Cost	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.0	178.2	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic materiel and above routine maintenance of government-owned equipment used in the manufacture of common modules. By consolidating industrial operations it provided a working environment with improved health and safety factors.

JUSTIFICATION: FY99 funding is required for replacement of equipment and instrumentation used in production testing at Electronic Proving Ground (EPG).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (C-E) (BF5400)		Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
	09X5065 PSR, Electric Proving Ground Replacement/initial purchase of equip and instrumentation used for production testing.	\$0.600			\$0.596			\$0.329	
	29X9281 PSR, CECOM Above routine maintenance of Govt-owned equipment used in manufacturing of Common Modules on various systems				\$0.084			\$0.076	
	95X0500 Tobyhanna Army Depot Completed establishment of the industrial wastewater pretreatment capabilities which enabled the depot to achieve its HAZMIN goals.	\$0.073							
	HAZARDOUS MINIMIZATION PROJECT Office Secretary of Army	\$0.200							
	TOTAL	\$0.873			\$0.680			\$0.405	
								\$0.403	